```
<120>
            Expression Vectors
      <130>
            GALA-04406
5
      <150>
            60/215,851
            2000-07-03
      <151>
      <160>
            36
10
      <170>
            PatentIn version 3.0
      <210>
            1
15
            2101
      <211>
      <212>
            DNA
      <213> Artificial Sequence
20
      <220>
250~00年 13140 46
      <223>
            Synthetic
      <400>
                                                                        60
      gatcagtcct gggtggtcat tgaaaggact gatgctgaag ttgaagctcc aatactttgg
                                                                       120
      ccacctgatg cgaagaactg actcatgtga taagaccctg atactgggaa agattgaagg
      caggaggaga agggatgaca gaggatggaa gagttggatg gaatcaccaa ctcgatggac
                                                                       180
                                                                       240
      atgagtttga gcaagcttcc aggagttggt aatgggcagg gaagcctggc gtgctgcagt
                                                                       300
      catggtacag aatataggat aaaaaagagg aagagtttgc cctgattctg aagagttgta
                                                                       360
                                                                       420
      ggatataaaa gtttagaata cctttagttt ggaagtctta aattatttac ttaggatggg
                                                                       480
      tacccactgc aatataagaa atcaggcttt agagactgat gtagagagaa tgagccctgg
      cataccagaa gctaacagct attggttata gctgttataa ccaatatata accaatatat
                                                                       540
      tggttatata gcatgaagct tgatgccagc aatttgaagg aaccatttag aactagtatc
                                                                       600
45
      ctaaactcta catgttccag gacactgatc ttaaagctca ggttcagaat cttgttttat
                                                                       660
      aggetetagg tgtatattgt ggggettece tggtggetea gatggtaaag tgtetgeetg
                                                                       720
50
                                                                       780
      caatgtgggt gatctgggtt cgatccctgg cttgggaaga tcccctggag aaggaaatgg
      caacccactc tagtactctt acctggaaaa ttccatggac agaggagcct tgtaagctac
                                                                       840
      900
55
      atacacctgt gaggtgaagt gaagtgaagg ttcaatgcag ggtctcctgc attgcagaaa
                                                                       960
      gattetttae catetgagee accagggaag cecaagaata etggagtggg tageetatte
                                                                      1020
60
      cttctccagg ggatcttccc atcccaggaa ttgaactgga gtctcctgca tttcaggtgg
                                                                      1080
      attetteace agetgaacta ceaggtggat actactecaa tattaaagtg ettaaagtee
                                                                      1140
```

	agttttcc	ca	cctttcccaa	aaaggttggg	tcactctttt	ttaaccttct	gtggcctact	1200
	ctgaggct	gt	ctacaagctt	atatatttat	gaacacattt	attgcaagtt	gttagtttta	1260
5	gatttaca	at	gtggtatctg	gctatttagt	ggtattggtg	gttggggatg	gggaggctga	1320
	tagcatct	ca	gagggcagct	agatactgtc	atacacactt	ttcaagttct	ccatttttgt	1380
10	gaaataga	aa	gtctctggat	ctaagttata	tgtgattctc	agtctctgtg	gtcatattct	1440
10	attctact	CC	tgaccactca	acaaggaacc	aagatatcaa	gggacacttg	ttttgtttca	1500
	tgcctggg	tt	gagtgggcca	tgacatatgt	tctgggcctt	gttacatggc	tggattggtt	1560
15	ggacaagt	gc	cagctctgat	cctgggactg	tggcatgtga	tgacatacac	cccctctcca	1620
	cattctgc	at	gtctctaggg	gggaaggggg	aagctcggta	tagaaccttt	attgtatttt	1680
20	ctgattgc	ct	cacttcttat	attgccccca	tgcccttctt	tgttcctcaa	gtaaccagag	1740
20	acagtgct	tc	ccagaaccaa	ccctacaaga	aacaaagggc	taaacaaagc	caaatgggaa	1800
	gcaggatc	at	ggtttgaact	ctttctggcc	agagaacaat	acctgctatg	gactagatac	1860
250 250 367	tgggagag	99	aaaggaaaag	tagggtgaat	tatggaagga	agctggcagg	ctcagcgttt	1920
**************************************	ctgtcttg	gc	atgaccagtc	tctcttcatt	ctcttcctag	atgtagggct	tggtaccaga	1980
	gcccctga	gg	ctttctgcat	gaatataaat	atatgaaact	gagtgatgct	tccatttcag	2040
	gttcttgg	199	gcgccgaatt	cgagctcggt	acccggggat	ctcgaggggg	ggcccggtac	2100
	С							2101
3 <b>1 1 1 1 1 1 1 1 1 1</b>	<210> 2							
	<211> 2	45						
	<212> D	NA						
40	<213> A	rti	ficial Sequ	ıence				
	<220>							
45	<223> S	ynt	hetic					
	<400> 2							
50							acaccacaca	60
50							ttacaagcga	120
							acatctacac	180
55	cacacaac	ac	cgcctcgacc	agggtgagat	atcggccggg	gacgcggcgg	tggtaattac	240
	aagcg							245
	<210> 3							
60		80						
	<212> D	ANC						

	<213> Artificial Sequence	
	<220>	
5	<223> Synthetic	
	<400> 3 ggaattcgcc cctctccctc cccccccct aacgttactg gccgaagccg cttggaataa	60
10	ggccggtgtg cgtttgtcta tatgttattt tccaccatat tgccgtcttt tggcaatgtg	120
	agggcccgga aacctggccc tgtcttcttg acgagcattc ctaggggtct ttcccctctc	180
15	gccaaaggaa tgcaaggtct gttgaatgtc gtgaaggaag cagttcctct ggaagcttct	240
13	tgaagacaaa caacgtetgt agegaceett tgeaggeage ggaaceeece acetggegae	300
	aggtgcctct gcggccaaaa gccacgtgta taagatacac ctgcaaaggc ggcacaaccc	360
20	cagtgccacg ttgtgagttg gatagttgtg gaaagagtca aatggctctc ctcaagcgta	420
	ttcaacaagg ggctgaagga tgcccagaag gtaccccatt gtatgggatc tgatctgggg	480
1 25	cctcggtgca catgctttac atgtgtttag tcgaggttaa aaaaacgtct aggccccccg	540
2 <b>5</b> 0 40 40 30	aaccacgggg acgtggtttt cctttgaaaa acacgatgat aatatggcct cctttgtctc	600
	tctgctcctg gtaggcatcc tattccatgc cacccaggcc ggcgccatgg gatatctaga	660
	tctcgagctc gcgaaagctt	680
ji	<210> 4	
2 🗲	<211> 4207	
3 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<212> DNA	
	<213> Artificial Sequence	
40	<220>	
	<223> Synthetic	
45	<400> 4 cggatccggc cattagccat attattcatt ggttatatag cataaatcaa tattggctat	60
	tggccattgc atacgttgta tccatatcat aatatgtaca tttatattgg ctcatgtcca	120
50	acattaccgc catgttgaca ttgattattg actagttatt aatagtaatc aattacgggg	180
50	tcattagttc atagcccata tatggagttc cgcgttacat aacttacggt aaatggcccg	240
	cctggctgac cgcccaacga cccccgccca ttgacgtcaa taatgacgta tgttcccata	300
55	gtaacgccaa tagggacttt ccattgacgt caatgggtgg agtatttacg gtaaactgcc	360
	cacttggcag tacatcaagt gtatcatatg ccaagtacgc cccctattga cgtcaatgac	420
60	ggtaaatggc ccgcctggca ttatgcccag tacatgacct tatgggactt tcctacttgg	480
00	cagtacatct acgtattagt catcgctatt accatggtga tgcggttttg gcagtacatc	540

	aatgggcgtg	gatagcggtt	tgactcacgg	ggatttccaa	gtctccaccc	cattgacgtc	600
	aatgggagtt	tgttttggca	ccaaaatcaa	cgggactttc	caaaatgtcg	taacaactcc	660
	gccccattga	cgcaaatggg	cggtaggcat	gtacggtggg	aggtctatat	aagcagagct	720
	cgtttagtga	accgtcagat	cgcctggaga	cgccatccac	gctgttttga	cctccataga	780
	agacaccggg	accgatccag	cctccgcggc	cccaagcttc	tcgacggatc	cccgggaatt	840
	caggacctca	ccatgggatg	gagctgtatc	atcctcttct	tggtagcaac	agctacaggt	900
	gtccactccg	aggtccaact	ggtggagagc	ggtggaggtg	ttgtgcaacc	tggccggtcc	960
	ctgcgcctgt	cctgctccgc	atctggcttc	gatttcacca	catattggat	gagttgggtg	1020
	agacaggcac	ctggaaaagg	tcttgagtgg	attggagaaa	ttcatccaga	tagcagtacg	1080
	attaactatg	cgccgtctct	aaaggataga	tttacaatat	cgcgagacaa	cgccaagaac	1140
	acattgttcc	tgcaaatgga	cagcctgaga	cccgaagaca	ccggggtcta	tttttgtgca	1200
	agcctttact	teggettece	ctggtttgct	tattggggcc	aagggacccc	ggtcaccgtc	1260
	tcctcagcct	ccaccaaggg	cccatcggtc	ttccccctgg	caccctcctc	caagagcacc	1320
	tctgggggca	cagcggccct	gggctgcctg	gtcaaggact	acttccccga	accggtgacg	1380
	gtgtcgtgga	actcaggcgc	cctgaccagc	ggcgtgcaca	ccttcccggc	tgtcctacag	1440
	tcctcaggac	tctactccct	cagcagcgtg	gtgaccgtgc	cctccagcag	cttgggcacc	1500
	cagacctaca	tctgcaacgt	gaatcacaag	cccagcaaca	ccaaggtgga	caagagagtt	1560
:	gagcccaaat	cttgtgacaa	aactcacaca	tgcccaccgt	gcccagcacc	tgaactcctg	1620
	gggggaccgt	cagtcttcct	cttcccccca	aaacccaagg	acaccctcat	gatctcccgg	1680
	acccctgagg	tcacatgcgt	ggtggtggac	gtgagccacg	aagaccctga	ggtcaagttc	1740
:	aactggtacg	tggacggcgt	ggaggtgcat	aatgccaaga	caaageegeg	ggaggagcag	1800
	tacaacagca	cgtaccgtgt	ggtcagcgtc	ctcaccgtcc	tgcaccagga	ctggctgaat	1860
	ggcaaggagt	acaagtgcaa	ggtctccaac	aaagccctcc	cagcccccat	cgagaaaacc	1920
	atctccaaag	ccaaagggca	gccccgagaa	ccacaggtgt	acaccctgcc	cccatcccgg	1980
	gaggagatga	ccaagaacca	ggtcagcctg	acctgcctgg	tcaaaggctt	ctatcccagc	2040
	gacatcgccg	tggagtggga	gagcaatggg	cagccggaga	acaactacaa	gaccacgcct	2100
	cccgtgctgg	actccgacgg	ctccttcttc	ctctatagca	agctcaccgt	ggacaagagc	2160
	aggtggcagc	aggggaacgt	cttctcatgc	tccgtgatgc	acgaggctct	gcacaaccac	2220
	tacacgcaga	agagcctctc	cctgtctccc	gggaaatgaa	agccgaattc	gcccctctcc	2280
	ctccccccc	cctaacgtta	ctggccgaag	ccgcttggaa	taaggccggt	gtgcgtttgt	2340
	ctatatgtta	ttttccacca	tattgccgtc	ttttggcaat	gtgagggccc	ggaaacctgg	2400

	ccctgtcttc	ttgacgagca	ttcctagggg	tctttcccct	ctcgccaaag	gaatgcaagg	2460
	tctgttgaat	gtcgtgaagg	aagcagttcc	tctggaagct	tcttgaagac	aaacaacgtc	2520
5	tgtagcgacc	ctttgcaggc	ageggaacee	cccacctggc	gacaggtgcc	tctgcggcca	2580
	aaagccacgt	gtataagata	cacctgcaaa	ggcggcacaa	ccccagtgcc	acgttgtgag	2640
10	ttggatagtt	gtggaaagag	tcaaatggct	ctcctcaagc	gtattcaaca	aggggctgaa	2700
10	ggatgcccag	aaggtacccc	attgtatggg	atctgatctg	gggcctcggt	gcacatgctt	2760
	tacatgtgtt	tagtcgaggt	taaaaaaacg	tctaggcccc	ccgaaccacg	gggacgtggt	2820
15	tttcctttga	aaaacacgat	gataatatgg	cctcctttgt	ctctctgctc	ctggtaggca	2880
	tcctattcca	tgccacccag	gccgacatcc	agctgaccca	gagcccaagc	agcctgagcg	2940
20	ccagcgtggg	tgacagagtg	accatcacct	gtaaggccag	tcaggatgtg	ggtacttctg	3000
20	tagcctggta	ccagcagaag	ccaggtaagg	ctccaaagct	gctgatctac	tggacatcca	3060
A deposition of the control of the c	cccggcacac	tggtgtgcca	agcagattca	gcggtagcgg	tagcggtacc	gacttcacct	3120
	tcaccatcag	cagcctccag	ccagaggaca	tcgccaccta	ctactgccag	caatatagcc	3180
	tctatcggtc	gttcggccaa	gggaccaagg	tggaaatcaa	acgaactgtg	gctgcaccat	3240
20	ctgtcttcat	cttcccgcca	tctgatgagc	agttgaaatc	tggaactgcc	tctgttgtgt	3300
3 <b>4</b>	gcctgctgaa	taacttctat	cccagagagg	ccaaagtaca	gtggaaggtg	gataacgccc	3360
88	tccaatcggg	taactcccag	gagagtgtca	cagagcagga	cagcaaggac	agcacctaca	3420
35 m m 4 m 4 m 4 m 4 m 4 m 4 m 4 m 4 m 4	gcctcagcag	caccctgacg	ctgagcaaag	cagactacga	gaaacacaaa	gtctacgcct	3480
Maria Maria	gcgaagtcac	ccatcagggc	ctgagctcgc	ccgtcacaaa	gagcttcaac	aggggagagt	3540
46	gttagagatc	taggcctcct	aggtcgacat	cgataaaata	aaagatttta	tttagtctcc	3600
	agaaaaaggg	gggaatgaaa	gaccccacct	gtaggtttgg	caagctagct	taagtaacgc	3660
	cattttgcaa	ggcatggaaa	aatacataac	tgagaataga	gaagttcaga	tcaaggtcag	3720
45	gaacagatgg	aacagctgaa	tatgggccaa	acaggatatc	tgtggtaagc	agttcctgcc	3780
	ccggctcagg	gccaagaaca	gatggaacag	ctgaatatgg	gccaaacagg	atatctgtgg	3840
50	taagcagttc	ctgccccggc	tcagggccaa	gaacagatgg	tccccagatg	cggtccagcc	3900
50	ctcagcagtt	tctagagaac	catcagatgt	ttccagggtg	ccccaaggac	ctgaaatgac	3960
	cctgtgcctt	atttgaacta	accaatcagt	tegetteteg	cttctgttcg	cgcgcttctg	4020
55	ctccccgagc	tcaataaaag	agcccacaac	ccctcactcg	gggcgccagt	cctccgattg	4080
	actgagtcgc	ccgggtaccc	gtgtatccaa	taaaccctct	tgcagttgca	tccgacttgt	4140
60	ggtctcgctg	ttccttggga	gggtctcctc	tgagtgattg	actacccgtc	agcgggggtc	4200
00	tttcatt						4207

	<210> 5						
	<211> 4210	)					
5	<212> DNA						
	<213> Arti	ficial Sequ	ence				
10	<220>						
10	<223> Synt	hetic					
1.5	<400> 5 ggatccggcc	attagccata	ttattcattg	gttatatagc	ataaatcaat	attggctatt	60
13	ggccattgca	tacgttgtat	ccatatcata	atatgtacat	ttatattggc	tcatgtccaa	120
	cattaccgcc	atgttgacat	tgattattga	ctagttatta	atagtaatca	attacggggt	180
20	cattagttca	tagcccatat	atggagttcc	gcgttacata	acttacggta	aatggcccgc	240
	ctggctgacc	gcccaacgac	ccccgcccat	tgacgtcaat	aatgacgtat	gttcccatag	300
	taacgccaat	agggactttc	cattgacgtc	aatgggtgga	gtatttacgg	taaactgccc	360
259 40 VI	acttggcagt	acatcaagtg	tatcatatgc	caagtacgcc	ccctattgac	gtcaatgacg	420
	gtaaatggcc	cgcctggcat	tatgcccagt	acatgacctt	atgggacttt	cctacttggc	480
3 <b>@</b>	agtacatcta	cgtattagtc	atcgctatta	ccatggtgat	gcggttttgg	cagtacatca	540
	atgggcgtgg	atagcggttt	gactcacggg	gatttccaag	tctccacccc	attgacgtca	600
I a ET	atgggagttt	gttttggcac	caaaatcaac	gggactttcc	aaaatgtcgt	aacaactccg	660
3 <b>5</b> 1	ccccattgac	gcaaatgggc	ggtaggcatg	tacggtggga	ggtctatata	agcagagctc	720
	gtttagtgaa	ccgtcagatc	gcctggagac	gccatccacg	ctgttttgac	ctccatagaa	780
4 <del>0</del>	gacaccggga	ccgatccagc	ctccgcggcc	ccaagcttct	cgacggatcc	ccgggaattc	840
	aggacctcac	catgggatgg	agctgtatca	tcctcttctt	ggtagcaaca	gctacaggtg	900
15	tccactccca	ggtccagctg	gtccaatcag	gggctgaagt	caagaaacct	gggtcatcag	960
45	tgaaggtctc	ctgcaaggct	tctggctaca	cctttactag	ctactggctg	cactgggtca	1020
	ggcaggcacc	tggacagggt	ctggaatgga	ttggatacat	taatcctagg	aatgattata	1080
50	ctgagtacaa	tcagaacttc	aaggacaagg	ccacaataac	tgcagacgaa	tccaccaata	1140
	cagcctacat	ggagctgagc	agcctgaggt	ctgaggacac	ggcattttat	ttttgtgcaa	1200
55	gaagggatat	tactacgttc	tactggggcc	aaggcaccac	ggtcaccgtc	tcctcagcct	1260
<i>JJ</i>	ccaccaaggg	cccatcggtc	ttccccctgg	caccctcctc	caagagcacc	tctgggggca	1320
	cageggeeet	gggctgcctg	gtcaaggact	acttccccga	accggtgacg	gtgtcgtgga	1380
60	actcaggcgc	cctgaccagc	ggcgtgcaca	ccttcccggc	tgtcctacag	tcctcaggac	1440
	tataataast	asaasaaata	ataeccatac	cataaaaaa	cttaaaceac	cadacctaca	1500

						~~~~~~	1560
		gaatcacaag					1560
	cttgtgacaa	aactcacaca	tgcccaccgt	gcccagcacc	tgaactcctg	gggggaccgt	1620
5	cagtcttcct	cttcccccca	aaacccaagg	acaccctcat	gatctcccgg	acccctgagg	1680
	tcacatgcgt	ggtggtggac	gtgagccacg	aagaccctga	ggtcaagttc	aactggtacg	1740
10	tggacggcgt	ggaggtgcat	aatgccaaga	caaagccgcg	ggaggagcag	tacaacagca	1800
10	cgtaccgtgt	ggtcagcgtc	ctcaccgtcc	tgcaccagga	ctggctgaat	ggcaaggagt	1860
	acaagtgcaa	ggtctccaac	aaagccctcc	cagcccccat	cgagaaaacc	atctccaaag	1920
15	ccaaagggca	gccccgagaa	ccacaggtgt	acaccctgcc	cccatcccgg	gaggagatga	1980
	ccaagaacca	ggtcagcctg	acctgcctgg	tcaaaggctt	ctatcccagc	gacatcgccg	2040
20	tggagtggga	gagcaatggg	cagccggaga	acaactacaa	gaccacgcct	cccgtgctgg	2100
20	actccgacgg	ctccttcttc	ctctatagca	agctcaccgt	ggacaagagc	aggtggcagc	2160
A STATE OF THE PARTY OF T	aggggaacgt	cttctcatgc	tccgtgatgc	acgaggctct	gcacaaccac	tacacgcaga	2220
250	agagcctctc	cctgtctccc	gggaaatgaa	agccgaattc	gcccctctcc	ctccccccc	2280
	cctaacgtta	ctggccgaag	ccgcttggaa	taaggccggt	gtgcgtttgt	ctatatgtta	2340
250 250 250 250 250 300	ttttccacca	tattgccgtc	ttttggcaat	gtgagggccc	ggaaacctgg	ccctgtcttc	2400
3 <u>4.</u>	ttgacgagca	ttcctagggg	tatttaccat	ctcgccaaag	gaatgcaagg	tctgttgaat	2460
	gtcgtgaagg	aagcagttcc	tctggaagct	tcttgaagac	aaacaacgtc	tgtagcgacc	2520
35	ctttgcaggc	agcggaaccc	cccacctggc	gacaggtgcc	tctgcggcca	aaagccacgt	2580
3 <b>5</b>	gtataagata	cacctgcaaa	ggcggcacaa	ccccagtgcc	acgttgtgag	ttggatagtt	2640
40	gtggaaagag	tcaaatggct	ctcctcaagc	gtattcaaca	aggggctgaa	ggatgcccag	2700
401	aaggtacccc	attgtatggg	atctgatctg	gggcctcggt	gcacatgctt	tacatgtgtt	2760
	tagtcgaggt	taaaaaaacg	tctaggcccc	ccgaaccacg	gggacgtggt	tttcctttga	2820
45	aaaacacgat	gataatatgg	cctcctttgt	ctctctgctc	ctggtaggca	tcctattcca	2880
	tgccacccag	gccgacatcc	agctgaccca	gtctccatca	tctctgagcg	catctgttgg	2940
50	agatagggtc	actatgagct	gtaagtccag	tcaaagtgtt	ttatacagtg	caaatcacaa	3000
50	gaactacttg	gcctggtacc	agcagaaacc	agggaaagca	cctaaactgc	tgatctactg	3060
	ggcatccact	agggaatctg	gtgtcccttc	gcgattctct	ggcagcggat	ctgggacaga	3120
55	ttttactttc	accatcagct	ctcttcaacc	agaagacatt	gcaacatatt	attgtcacca	3180
	atacctctcc	tcgtggacgt	tcggtggagg	gaccaaggtg	cagatcaaac	gaactgtggc	3240
60	tgcaccatct	gtcttcatct	tcccgccatc	tgatgagcag	ttgaaatctg	gaactgcctc	3300
60	tgttgtgtgc	ctgctgaata	acttctatcc	cagagaggcc	aaagtacagt	ggaaggtgga	3360

	taacgcctc caatcgggta actcccagga gagtgtcaca gagcaggaca gcaaggacag	3420
	cacctacage etcageagea ecetgaeget gageaaagea gaetaegaga aacaeaaagt	3480
5	ctacgcctgc gaagtcaccc atcagggcct gagctcgccc gtcacaaaga gcttcaacag	3540
	gggagagtgt tagagatcta ggcctcctag gtcgacatcg ataaaataaa	3600
	tagtotocag aaaaaggggg gaatgaaaga coccacotgt aggtttggca agotagotta	3660
10	agtaacgcca ttttgcaagg catggaaaaa tacataactg agaatagaga agttcagatc	3720
	aaggtcagga acagatggaa cagctgaata tgggccaaac aggatatctg tggtaagcag	3780
15	ttcctgcccc ggctcagggc caagaacaga tggaacagct gaatatgggc caaacaggat	3840
	atctgtggta agcagttcct gccccggctc agggccaaga acagatggtc cccagatgcg	3900
	gtccagccct cagcagtttc tagagaacca tcagatgttt ccagggtgcc ccaaggacct	3960
20	gaaatgaccc tgtgccttat ttgaactaac caatcagttc gcttctcgct tctgttcgcg	4020
	cgcttctgct ccccgagctc aataaaagag cccacaaccc ctcactcggg gcgccagtcc	4080
25	toogattgac tgagtogcoc gggtaccogt gtatocaata aaccotottg cagttgcato	4140
	cgacttgtgg tctcgctgtt ccttgggagg gtctcctctg agtgattgac tacccgtcag	4200
25 30 30	gtctttcatt	4210
3 <b>0</b> =	<210> 6	
	<211> 5732	
35	<212> DNA	
	<213> Artificial Sequence	
35 m mas land 100 m a 40 m	<220>	
40	<223> Synthetic	
"	<400> 6	
45	cgagettgge agaaatggtt gaacteeega gagtgteeta caeetagggg agaageagee	60
75	aaggggttgt ttcccaccaa ggacgacccg tctgcgcaca aacggatgag cccatcagac	120
	aaagacatat tcattctctg ctgcaaactt ggcatagctc tgctttgcct ggggctattg	180
50	ggggaagttg cggttcgtgc tcgcagggct ctcacccttg actctttcaa taataactct	240
	tetgtgcaag attacaatet aaacaatteg gagaactega eetteeteet gaggcaagga	300
55	ccacagccaa cttcctctta caagccgcat cgattttgtc cttcagaaat agaaataaga	360
55	atgcttgcta aaaattatat ttttaccaat aagaccaatc caataggtag attattagtt	420
	actatgttaa gaaatgaatc attatctttt agtactattt ttactcaaat tcagaagtta	480
60	gaaatgggaa tagaaaatag aaagagacgc tcaacctcaa ttgaagaaca ggtgcaagga	540
	ctattgacca caggcctaga agtaaaaaag ggaaaaaaga gtgtttttgt caaaatagga	600

	gacaggtggt	ggcaaccagg	gacttatagg	ggaccttaca	tctacagacc	aacagatgcc	660
	cccttaccat	atacaggaag	atatgactta	aattgggata	ggtgggttac	agtcaatggc	720
5	tataaagtgt	tatatagatc	cctccccttt	cgtgaaagac	tcgccagagc	tagacctcct	780
	tggtgtatgt	tgtctcaaga	aaagaaagac	gacatgaaac	aacaggtaca	tgattatatt	840
10	tatctaggaa	caggaatgca	cttttgggga	aagattttcc	ataccaagga	ggggacagtg	900
10	gctggactaa	tagaacatta	ttctgcaaaa	acttatggca	tgagttatta	tgattagcct	960
	tgatttgccc	aaccttgcgg	ttcccaaggc	ttaagtaagt	ttttggttac	aaactgttct	1020
15	taaaacaagg	atgtgagaca	agtggtttcc	tgacttggtt	tggtatcaaa	ggttctgatc	1080
	tgagctctga	gtgttctatt	ttcctatgtt	cttttggaat	ttatccaaat	cttatgtaaa	1140
20	tgcttatgta	aaccaagata	taaaagagtg	ctgattttt	gagtaaactt	gcaacagtcc	1200
20	taacattcac	ctcttgtgtg	tttgtgtctg	ttcgccatcc	cgtctccgct	cgtcacttat	1260
A Software of the software of	ccttcacttt	ccagagggtc	ccccgcaga	ccccggcgac	cctcaggtcg	gccgactgcg	1320
2 <b>5</b>	gcagctggcg	cccgaacagg	gaccctcgga	taagtgaccc	ttgtctttat	ttctactatt	1380
2000 2000 2000 2000 2000 2000 2000 200	ttgtgttcgt	cttgttttgt	ctctatcttg	tctggctatc	atcacaagag	cggaacggac	1440
*.i	tcacctcagg	gaaccaagct	agcccggggt	cgacggatcc	gattacttac	tggcaggtgc	1500
	tgggggcttc	cgagacaatc	gcgaacatct	acaccacaca	acaccgcctc	gaccagggtg	1560
. H	agatatcggc	cggggacgcg	gcggtggtaa	ttacaagcga	gatccgatta	cttactggca	1620
35 T	ggtgctgggg	gcttccgaga	caatcgcgaa	catctacacc	acacaacacc	gcctcgacca	1680
	gggtgagata	tcggccgggg	acgcggcggt	ggtaattaca	agcgagatcc	ccgggaattc	1740
4 <b>5</b>	aggacctcac	catgggatgg	agctgtatca	tcctcttctt	ggtagcaaca	gctacaggtg	1800
40	tccactccga	ggtccaactg	gtggagagcg	gtggaggtgt	tgtgcaacct	ggccggtccc	1860
	tgcgcctgtc	ctgctccgca	tctggcttcg	atttcaccac	atattggatg	agttgggtga	1920
45	gacaggcacc	tggaaaaggt	cttgagtgga	ttggagaaat	tcatccagat	agcagtacga	1980
	ttaactatgc	gccgtctcta	aaggatagat	ttacaatatc	gcgagacaac	gccaagaaca	2040
50	cattgttcct	gcaaatggac	agcctgagac	ccgaagacac	cggggtctat	ttttgtgcaa	2100
30	gcctttactt	cggcttcccc	tggtttgctt	attggggcca	agggaccccg	gtcaccgtct	2160
	cctcagcctc	caccaagggc	ccatcggtct	tececetgge	accctcctcc	aagagcacct	2220
55	ctgggggcac	agcggccctg	ggctgcctgg	tcaaggacta	cttccccgaa	ccggtgacgg	2280
	tgtcgtggaa	ctcaggcgcc	ctgaccagcg	gcgtgcacac	cttcccggct	gtcctacagt	2340
60	cctcaggact	ctactccctc	agcagcgtgg	tgaccgtgcc	ctccagcagc	ttgggcaccc	2400
00	agacctacat	ctgcaacgtg	aatcacaagc	ccagcaacac	caaggtggac	aagagagttg	2460

	agcccaaatc	ttgtgacaaa	actcacacat	gcccaccgtg	cccagcacct	gaactcctgg	2520
	ggggaccgtc	agtcttcctc	ttccccccaa	aacccaagga	caccctcatg	atctcccgga	2580
5	cccctgaggt	cacatgcgtg	gtggtggacg	tgagccacga	agaccctgag	gtcaagttca	2640
	actggtacgt	ggacggcgtg	gaggtgcata	atgccaagac	aaagccgcgg	gaggagcagt	2700
10	acaacagcac	gtaccgtgtg	gtcagcgtcc	tcaccgtcct	gcaccaggac	tggctgaatg	2760
10	gcaaggagta	caagtgcaag	gtctccaaca	aagccctccc	agcccccatc	gagaaaacca	2820
	tctccaaagc	caaagggcag	ccccgagaac	cacaggtgta	caccctgccc	ccatcccggg	2880
15	aggagatgac	caagaaccag	gtcagcctga	cctgcctggt	caaaggcttc	tatcccagcg	2940
	acatcgccgt	ggagtgggag	agcaatgggc	agccggagaa	caactacaag	accacgcctc	3000
20	ccgtgctgga	ctccgacggc	tccttcttcc	tctatagcaa	gctcaccgtg	gacaagagca	3060
20	ggtggcagca	ggggaacgtc	ttctcatgct	ccgtgatgca	cgaggctctg	cacaaccact	3120
TOTAL STATE OF THE	acacgcagaa	gagcctctcc	ctgtctcccg	ggaaatgaaa	gccgaattcg	ccctctccc	3180
25 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	tcccccccc	ctaacgttac	tggccgaagc	cgcttggaat	aaggccggtg	tgcgtttgtc	3240
4	tatatgttat	tttccaccat	attgccgtct	tttggcaatg	tgagggcccg	gaaacctggc	3300
36	cctgtcttct	tgacgagcat	tcctaggggt	ctttcccctc	tcgccaaagg	aatgcaaggt	3360
	ctgttgaatg	tcgtgaagga	agcagttcct	ctggaagctt	cttgaagaca	aacaacgtct	3420
<b>#</b>	gtagcgaccc	tttgcaggca	gcggaacccc	ccacctggcg	acaggtgcct	ctgcggccaa	3480
35	aagccacgtg	tataagatac	acctgcaaag	gcggcacaac	cccagtgcca	cgttgtgagt	3540
	tggatagttg	tggaaagagt	caaatggctc	tcctcaagcg	tattcaacaa	ggggctgaag	3600
4 <b>~</b>	gatgcccaga	aggtacccca	ttgtatggga	tctgatctgg	ggcctcggtg	cacatgcttt	3660
40 <sup>-1</sup>	acatgtgttt	agtcgaggtt	aaaaaaacgt	ctaggccccc	cgaaccacgg	ggacgtggtt	3720
	ttcctttgaa	aaacacgatg	ataatatggc	ctcctttgtc	tctctgctcc	tggtaggcat	3780
45	cctattccat	gccacccagg	ccgacatcca	gctgacccag	agcccaagca	gcctgagcgc	3840
	cagcgtgggt	gacagagtga	ccatcacctg	taaggccagt	caggatgtgg	gtacttctgt	3900
50	agcctggtac	cagcagaagc	caggtaaggc	tccaaagctg	ctgatctact	ggacatccac	3960
50	ccggcacact	ggtgtgccaa	gcagattcag	cggtagcggt	agcggtaccg	acttcacctt	4020
	caccatcagc	agcctccagc	cagaggacat	cgccacctac	tactgccagc	aatatagcct	4080
55	ctatcggtcg	ttcggccaag	ggaccaaggt	ggaaatcaaa	cgaactgtgg	ctgcaccatc	4140
	tgtcttcatc	ttcccgccat	ctgatgagca	gttgaaatct	ggaactgcct	ctgttgtgtg	4200
60	cctgctgaat	aacttctatc	ccagagaggc	caaagtacag	tggaaggtgg	ataacgccct	4260
00	ccaatcgggt	aactcccagg	agagtgtcac	agagcaggac	agcaaggaca	gcacctacag	4320

	cctcagcagc accctgacgc	tgagcaaagc	agactacgag	aaacacaaag	tctacgcctg	4380
	cgaagtcacc catcagggcc	tgagctcgcc	cgtcacaaag	agcttcaaca	ggggagagtg	4440
5	ttagagatcc cccgggctgc	aggaattcga	tatcaagctt	atcgataatc	aacctctgga	4500
	ttacaaaatt tgtgaaagat	tgactggtat	tcttaactat	gttgctcctt	ttacgctatg	4560
10	tggatacgct gctttaatgc	ctttgtatca	tgctattgct	tcccgtatgg	ctttcatttt	4620
	ctcctccttg tataaatcct	ggttgctgtc	tctttatgag	gagttgtggc	ccgttgtcag	4680
	gcaacgtggc gtggtgtgca	ctgtgtttgc	tgacgcaacc	cccactggtt	ggggcattgc	4740
15	caccacctgt cagctccttt	ccgggacttt	cgctttcccc	ctccctattg	ccacggcgga	4800
	actcatcgcc gcctgccttg	cccgctgctg	gacaggggct	cggctgttgg	gcactgacaa	4860
20	ttccgtggtg ttgtcgggga	aatcatcgtc	ctttccttgg	ctgctcgcct	gtgttgccac	4920
20	ctggattctg cgcgggacgt	ccttctgcta	cgtcccttcg	gccctcaatc	cagcggacct	4980
And	teetteeege ggeetgetge	cggctctgcg	gcctcttccg	cgtcttcgcc	ttcgccctca	5040
2 <b>5</b> 1	gacgagtcgg atctcccttt	gggccgcctc	cccgcctgat	cgataccgtc	aacatcgata	5100
	aaataaaaga ttttatttag	tctccagaaa	aaggggggaa	tgaaagaccc	cacctgtagg	5160
3 <b>C</b>	tttggcaagc tagcttaagt	aacgccattt	tgcaaggcat	ggaaaaatac	ataactgaga	5220
	atagagaagt tcagatcaag	gtcaggaaca	gatggaacag	ctgaatatgg	gccaaacagg	5280
	atatctgtgg taagcagttc	ctgccccggc	tcagggccaa	gaacagatgg	aacagctgaa	5340
3 <b>5</b>	tatgggccaa acaggatatc	tgtggtaagc	agttcctgcc	ccggctcagg	gccaagaaca	5400
	gatggtcccc agatgcggtc	cagccctcag	cagtttctag	agaaccatca	gatgtttcca	5460
<b>5</b> 4 <b>0</b> -	gggtgcccca aggacctgaa	atgaccctgt	gccttatttg	aactaaccaa	tcagttcgct	5520
400	tetegettet gttegegege	ttctgctccc	cgagctcaat	aaaagagccc	acaacccctc	5580
	actcggggcg ccagtcctcc	gattgactga	gtcgcccggg	tacccgtgta	tccaataaac	5640
45	cctcttgcag ttgcatccga	cttgtggtct	cgctgttcct	tgggagggtc	tcctctgagt	5700
	gattgactac ccgtcagcgg	gggtctttca	tt			5732
50	<210> 7					
	<211> 9183					
	<212> DNA					
55	<213> Artificial Seq	uence				
	<220>					
60	<223> Synthetic					

<400> 7

	aaagacccca	cccgtaggtg	gcaagctagc	ttaagtaacg	ccactttgca	aggcatggaa	60
	aaatacataa	ctgagaatag	aaaagttcag	atcaaggtca	ggaacaaaga	aacagctgaa	120
5	taccaaacag	gatatctgtg	gtaagcggtt	cctgccccgg	ctcagggcca	agaacagatg	180
	agacagctga	gtgatgggcc	aaacaggata	tctgtggtaa	gcagttcctg	ccccggctcg	240
10	gggccaagaa	cagatggtcc	ccagatgcgg	tccagccctc	agcagtttct	agtgaatcat	300
10	cagatgtttc	cagggtgccc	caaggacctg	aaaatgaccc	tgtaccttat	ttgaactaac	360
	caatcagttc	gcttctcgct	tctgttcgcg	cgcttccgct	ctccgagctc	aataaaagag	420
15	cccacaaccc	ctcactcggc	gcgccagtct	tccgatagac	tgcgtcgccc	gggtacccgt	480
	attcccaata	aagcctcttg	ctgtttgcat	ccgaatcgtg	gtctcgctgt	tccttgggag	540
20	ggtctcctct	gagtgattga	ctacccacga	cgggggtctt	tcatttgggg	gctcgtccgg	600
	gatttggaga	cccctgccca	gggaccaccg	acccaccacc	gggaggtaag	ctggccagca	660
2 <b>5</b> 5	acttatctgt	gtctgtccga	ttgtctagtg	tctatgtttg	atgttatgcg	cctgcgtctg	720
2 <b>5</b>	tactagttag	ctaactagct	ctgtatctgg	cggacccgtg	gtggaactga	cgagttctga	780
	acacccggcc	gcaaccctgg	gagacgtccc	agggactttg	ggggccgttt	ttgtggcccg	840
30-	acctgaggaa	gggagtcgat	gtggaatccg	accccgtcag	gatatgtggt	tctggtagga	900
	gacgagaacc	taaaacagtt	cccgcctccg	tctgaatttt	tgctttcggt	ttggaaccga	960
3\$ 4 <b>==</b> 0,	agccgcgcgt	cttgtctgct	gcagcgctgc	agcatcgttc	tgtgttgtct	ctgtctgact	1020
35	gtgtttctgt	atttgtctga	aaattagggc	cagactgtta	ccactccctt	aagtttgacc	1080
3 <b>5</b>	ttaggtcact	ggaaagatgt	cgagcggatc	gctcacaacc	agtcggtaga	tgtcaagaag	1140
40	agacgttggg	ttaccttctg	ctctgcagaa	tggccaacct	ttaacgtcgg	atggccgcga	1200
<b>T</b>	gacggcacct	ttaaccgaga	cctcatcacc	caggttaaga	tcaaggtctt	ttcacctggc	1260
	ccgcatggac	acccagacca	ggtcccctac	atcgtgacct	gggaagcctt	ggcttttgac	1320
45	cccctccct	gggtcaagcc	ctttgtacac	cctaagcctc	cgcctcctct	tcctccatcc	1380
	gccccgtctc	tcccccttga	acctcctcgt	tcgaccccgc	ctcgatcctc	cctttatcca	1440
50	gccctcactc	cttctctagg	cgccggaatt	ccgatctgat	caagagacag	gatgaggatc	1500
50	gtttcgcatg	attgaacaag	atggattgca	cgcaggttct	ccggccgctt	gggtggagag	1560
	gctattcggc	tatgactggg	cacaacagac	aatcggctgc	tctgatgccg	ccgtgttccg	1620
55	gctgtcagcg	caggggcgcc	cggttctttt	tgtcaagacc	gacctgtccg	gtgccctgaa	1680
	tgaactgcag	gacgaggcag	cgcggctatc	gtggctggcc	acgacgggcg	ttccttgcgc	1740
60	agctgtgctc	gacgttgtca	ctgaagcggg	aagggactgg	ctgctattgg	gcgaagtgcc	1800
00	ggggcaggat	ctcctgtcat	ctcaccttgc	tcctgccgag	aaagtatcca	tcatggctga	1860

	tgcaatgcgg	cggctgcata	cgcttgatcc	ggctacctgc	ccattcgacc	accaagcgaa	1920
	acatcgcatc	gagcgagcac	gtactcggat	ggaagccggt	cttgtcgatc	aggatgatct	1980
5	ggacgaagag	catcaggggc	tcgcgccagc	cgaactgttc	gccaggctca	aggcgcgcat	2040
	gcccgacggc	gaggatctcg	tcgtgaccca	tggcgatgcc	tgcttgccga	atatcatggt	2100
10	ggaaaatggc	cgcttttctg	gattcatcga	ctgtggccgg	ctgggtgtgg	cggaccgcta	2160
10	tcaggacata	gcgttggcta	cccgtgatat	tgctgaagag	cttggcggcg	aatgggctga	2220
	ccgcttcctc	gtgctttacg	gtatcgccgc	tcccgattcg	cagcgcatcg	ccttctatcg	2280
15	ccttcttgac	gagttcttct	gagcgggact	ctggggttcg	aaatgaccga	ccaagcgacg	2340
	cccaacctgc	catcacgaga	tttcgattcc	accgccgcct	tctatgaaag	gttgggcttc	2400
20	ggaatcgttt	tccgggacgc	cggctggatg	atcctccagc	gcggggatct	catgctggag	2460
20 101	ttcttcgccc	accccgggct	cgatcccctc	gcgagttggt	tcagctgctg	cctgaggctg	2520
	gacgacctcg	cggagttcta	ccggcagtgc	aaatccgtcg	gcatccagga	aaccagcagc	2580
25	ggctatccgc	gcatccatgc	ccccgaactg	caggagtggg	gaggcacgat	ggccgctttg	2640
30	gtcgaggcgg	atcctagaac	tagcgaaaat	gcaagagcaa	agacgaaaac	atgccacaca	2700
26	tgaggaatac	cgattctctc	attaacatat	tcaggccagt	tatctgggct	taaaagcaga	2760
¥	agtccaaccc	agataacgat	catatacatg	gttctctcca	gaggttcatt	actgaacact	2820
From Control	cgtccgagaa	taacgagtgg	atcagtcctg	ggtggtcatt	gaaaggactg	atgctgaagt	2880
3 <b>5</b>	tgaagctcca	atactttggc	cacctgatgc	gaagaactga	ctcatgtgat	aagaccctga	2940
351 351 40	tactgggaaa	gattgaaggc	aggaggagaa	gggatgacag	aggatggaag	agttggatgg	3000
10	aatcaccaac	tcgatggaca	tgagtttgag	caagcttcca	ggagttggta	atgggcaggg	3060
40	aagcctggcg	tgctgcagtc	catggggttg	caaagagttg	gacactactg	agtgactgaa	3120
	ctgaactgat	agtgtaatcc	atggtacaga	atataggata	aaaaagagga	agagtttgcc	3180
45	ctgattctga	agagttgtag	gatataaaag	tttagaatac	ctttagtttg	gaagtcttaa	3240
	attatttact	taggatgggt	acccactgca	atataagaaa	tcaggcttta	gagactgatg	3300
50	tagagagaat	gagccctggc	ataccagaag	ctaacagcta	ttggttatag	ctgttataac	3360
30	caatatataa	ccaatatatt	ggttatatag	catgaagctt	gatgccagca	atttgaagga	3420
	accatttaga	actagtatcc	taaactctac	atgttccagg	acactgatct	taaagctcag	3480
55	gttcagaatc	ttgttttata	ggctctaggt	gtatattgtg	gggcttccct	ggtggctcag	3540
	atggtaaagt	gtctgcctgc	aatgtgggtg	atctgggttc	gatccctggc	ttgggaagat	3600
60	cccctggaga	aggaaatggc	aacccactct	agtactctta	cctggaaaat	tccatggaca	3660
60	gaggagcctt	gtaagctaca	gtccatggga	ttgcaaagag	ttgaacacaa	ctgagcaact	3720

		aagcacagca	cagtacagta	tacacctgtg	aggtgaagtg	aagtgaaggt	tcaatgcagg	3780
		gtctcctgca	ttgcagaaag	attctttacc	atctgagcca	ccagggaagc	ccaagaatac	3840
5	5	tggagtgggt	agcctattcc	ttctccaggg	gatcttccca	tcccaggaat	tgaactggag	3900
		tctcctgcat	ttcaggtgga	ttcttcacca	gctgaactac	caggtggata	ctactccaat	3960
	10	attaaagtgc	ttaaagtcca	gttttcccac	ctttcccaaa	aaggttgggt	cactcttttt	4020
	10	taaccttctg	tggcctactc	tgaggctgtc	tacaagctta	tatatttatg	aacacattta	4080
		ttgcaagttg	ttagttttag	atttacaatg	tggtatctgg	ctatttagtg	gtattggtgg	4140
	15	ttggggatgg	ggaggctgat	agcatctcag	agggcagcta	gatactgtca	tacacacttt	4200
		tcaagttctc	catttttgtg	aaatagaaag	tctctggatc	taagttatat	gtgattctca	4260
	20	gtctctgtgg	tcatattcta	ttctactcct	gaccactcaa	caaggaacca	agatatcaag	4320
	20	ggacacttgt	tttgtttcat	gcctgggttg	agtgggccat	gacatatgtt	ctgggccttg	4380
	4 55500	ttacatggct	ggattggttg	gacaagtgcc	agctctgatc	ctgggactgt	ggcatgtgat	4440
		gacatacacc	ccctctccac	attctgcatg	tctctagggg	ggaagggga	agctcggtat	4500
	250 30 1	agaaccttta	ttgtattttc	tgattgcctc	acttcttata	ttgcccccat	gcccttcttt	4560
	26	gttcctcaag	taaccagaga	cagtgcttcc	cagaaccaac	cctacaagaa	acaaagggct	4620
		aaacaaagcc	aaatgggaag	caggatcatg	gtttgaactc	tttctggcca	gagaacaata	4680
		cctgctatgg	actagatact	gggagaggga	aaggaaaagt	agggtgaatt	atggaaggaa	4740
	35	gctggcaggc	tcagcgtttc	tgtcttggca	tgaccagtct	ctcttcattc	tcttcctaga	4800
		tgtagggctt	ggtaccagag	cccctgaggc	tttctgcatg	aatataaata	tatgaaactg	4860
	4 <b>0</b>	agtgatgctt	ccatttcagg	ttcttggggg	cgccgaattc	gagctcggta	cccggggatc	4920
	40=	tcgacggatc	cgattactta	ctggcaggtg	ctgggggctt	ccgagacaat	cgcgaacatc	4980
		tacaccacac	aacaccgcct	cgaccagggt	gagatatcgg	ccggggacgc	ggcggtggta	5040
	45	attacaagcg	agatccgatt	acttactggc	aggtgctggg	ggcttccgag	acaatcgcga	5100
		acatctacac	cacacaacac	cgcctcgacc	agggtgagat	atcggccggg	gacgcggcgg	5160
	50	tggtaattac	aagcgagatc	cccgggaatt	caggacctca	ccatgggatg	gagctgtatc	5220
	30	atcctcttct	tggtagcaac	agctacaggt	gtccactccg	aggtccaact	ggtggagagc	5280
		ggtggaggtg	ttgtgcaacc	tggccggtcc	ctgcgcctgt	cctgctccgc	atctggcttc	5340
	55	gatttcacca	catattggat	gagttgggtg	agacaggcac	ctggaaaagg	tcttgagtgg	5400
		attggagaaa	ttcatccaga	tagcagtacg	attaactatg	cgccgtctct	aaaggataga	5460
	60	tttacaatat	cgcgagacaa	cgccaagaac	acattgttcc	tgcaaatgga	. cagcctgaga	5520
	00	cccgaagaca	ccggggtcta	tttttgtgca	agcctttact	teggetteec	ctggtttgct	5580

	tattggggcc	aagggacccc	ggtcaccgtc	tcctcagcct	ccaccaaggg	cccatcggtc	5640
	ttccccctgg	caccctcctc	caagagcacc	tctgggggca	cagcggccct	gggctgcctg	5700
	gtcaaggact	acttccccga	accggtgacg	gtgtcgtgga	actcaggcgc	cctgaccagc	5760
	ggcgtgcaca	ccttcccggc	tgtcctacag	tcctcaggac	tctactccct	cagcagcgtg	5820
	gtgaccgtgc	cctccagcag	cttgggcacc	cagacctaca	tctgcaacgt	gaatcacaag	5880
	cccagcaaca	ccaaggtgga	caagagagtt	gagcccaaat	cttgtgacaa	aactcacaca	5940
	tgcccaccgt	gcccagcacc	tgaactcctg	gggggaccgt	cagtcttcct	cttcccccca	6000
	aaacccaagg	acaccctcat	gatctcccgg	acccctgagg	tcacatgcgt	ggtggtggac	6060
	gtgagccacg	aagaccctga	ggtcaagttc	aactggtacg	tggacggcgt	ggaggtgcat	6120
	aatgccaaga	caaagccgcg	ggaggagcag	tacaacagca	cgtaccgtgt	ggtcagcgtc	6180
	ctcaccgtcc	tgcaccagga	ctggctgaat	ggcaaggagt	acaagtgcaa	ggtctccaac	6240
	aaagccctcc	cagcccccat	cgagaaaacc	atctccaaag	ccaaagggca	gccccgagaa	6300
	ccacaggtgt	acaccctgcc	cccatcccgg	gaggagatga	ccaagaacca	ggtcagcctg	6360
	acctgcctgg	tcaaaggctt	ctatcccagc	gacatcgccg	tggagtggga	gagcaatggg	6420
	cagccggaga	acaactacaa	gaccacgcct	cccgtgctgg	actccgacgg	ctccttcttc	6480
	ctctatagca	agctcaccgt	ggacaagagc	aggtggcagc	aggggaacgt	cttctcatgc	6540
•	tccgtgatgc	acgaggctct	gcacaaccac	tacacgcaga	agagcctctc	cctgtctccc	6600
	gggaaatgaa	agccgaattc	gcccctctcc	ctccccccc	cctaacgtta	ctggccgaag	6660
	ccgcttggaa	taaggccggt	gtgcgtttgt	ctatatgtta	ttttccacca	tattgccgtc	6720
	ttttggcaat	gtgagggccc	ggaaacctgg	ccctgtcttc	ttgacgagca	ttcctagggg	6780
:	tctttcccct	ctcgccaaag	gaatgcaagg	tctgttgaat	gtcgtgaagg	aagcagttcc	6840
	tctggaagct	tcttgaagac	aaacaacgtc	tgtagcgacc	ctttgcaggc	agcggaaccc	6900
	cccacctggc	gacaggtgcc	tctgcggcca	aaagccacgt	gtataagata	cacctgcaaa	6960
	ggcggcacaa	ccccagtgcc	acgttgtgag	ttggatagtt	gtggaaagag	tcaaatggct	7020
	ctcctcaagc	gtattcaaca	aggggctgaa	ggatgcccag	aaggtacccc	attgtatggg	7080
	atctgatctg	gggcctcggt	gcacatgctt	tacatgtgtt	tagtcgaggt	taaaaaaacg	7140
	tctaggcccc	ccgaaccacg	gggacgtggt	tttcctttga	aaaacacgat	gataatatgg	7200
	cctcctttgt	ctctctgctc	ctggtaggca	tcctattcca	tgccacccag	gccgacatcc	7260
	agctgaccca	gagcccaagc	agcctgagcg	ccagcgtggg	tgacagagtg	accatcacct	7320
	gtaaggccag	tcaggatgtg	ggtacttctg	tagcctggta	ccagcagaag	ccaggtaagg	7380
	ctccaaagct	gctgatctac	tggacatcca	cccggcacac	tggtgtgcca	agcagattca	7440

	gcggtagcgg	tagcggtacc	gacttcacct	tcaccatcag	cagcctccag	ccagaggaca	7500
	tcgccaccta	ctactgccag	caatatagcc	tctatcggtc	gttcggccaa	gggaccaagg	7560
5	tggaaatcaa	acgaactgtg	gctgcaccat	ctgtcttcat	cttcccgcca	tctgatgagc	7620
	agttgaaatc	tggaactgcc	tctgttgtgt	gcctgctgaa	taacttctat	cccagagagg	7680
10	ccaaagtaca	gtggaaggtg	gataacgccc	tccaatcggg	taactcccag	gagagtgtca	7740
10	cagagcagga	cagcaaggac	agcacctaca	gcctcagcag	caccctgacg	ctgagcaaag	7800
	cagactacga	gaaacacaaa	gtctacgcct	gcgaagtcac	ccatcagggc	ctgagctcgc	7860
15	ccgtcacaaa	gagcttcaac	aggggagagt	gttagagatc	ccccgggctg	caggaattcg	7920
	atatcaagct	tatcgataat	caacctctgg	attacaaaat	ttgtgaaaga	ttgactggta	7980
20	ttcttaacta	tgttgctcct	tttacgctat	gtggatacgc	tgctttaatg	cctttgtatc	8040
20	atgctattgc	ttcccgtatg	gctttcattt	tatactactt	gtataaatcc	tggttgctgt	8100
2 <b>5</b>	ctctttatga	ggagttgtgg	cccgttgtca	ggcaacgtgg	cgtggtgtgc	actgtgtttg	8160
25	ctgacgcaac	ccccactggt	tggggcattg	ccaccacctg	tcagctcctt	tccgggactt	8220
	tcgctttccc	cctccctatt	gccacggcgg	aactcatcgc	cgcctgcctt	gcccgctgct	8280
30	ggacaggggc	tcggctgttg	ggcactgaca	attccgtggt	gttgtcgggg	aaatcatcgt	8340
Ju	cctttccttg	gctgctcgcc	tgtgttgcca	cctggattct	gcgcgggacg	tccttctgct	8400
or to the second of the second	acgtcccttc	ggccctcaat	ccagcggacc	ttccttcccg	cggcctgctg	ccggctctgc	8460
3 <b>5</b>	ggcctcttcc	gcgtcttcgc	cttcgccctc	agacgagtcg	gatctccctt	tgggccgcct	8520
The state of the s	ccccgcctga	tcgataccgt	caacatcgat	aaaataaaag	attttattta	gtctccagaa	8580
46:	aaagggggga	atgaaagacc	ccacctgtag	gtttggcaag	ctagcttaag	taacgccatt	8640
40=	ttgcaaggca	tggaaaaata	cataactgag	aatagagaag	ttcagatcaa	ggtcaggaac	8700
	agatggaaca	gctgaatatg	ggccaaacag	gatatctgtg	gtaagcagtt	cctgccccgg	8760
45	ctcagggcca	agaacagatg	gaacagctga	atatgggcca	aacaggatat	ctgtggtaag	8820
	cagttcctgc	cccggctcag	ggccaagaac	agatggtccc	cagatgcggt	ccagccctca	8880
50	gcagtttcta	gagaaccatc	agatgtttcc	agggtgcccc	aaggacctga	aatgaccctg	8940
50	tgccttattt	gaactaacca	atcagttcgc	ttctcgcttc	tgttcgcgcg	cttctgctcc	9000
	ccgagctcaa	. taaaagagcc	cacaacccct	cactcggggc	gccagtcctc	cgattgactg	9060
55	agtcgcccgg	gtacccgtgt	atccaataaa	ccctcttgca	gttgcatccg	acttgtggtc	9120
	tcgctgttcc	: ttgggagggt	ctcctctgag	tgattgacta	cccgtcagcg	ggggtctttc	9180
60	att						9183
υυ	<210> 8						

<210> 8

	<212> DNA	
5	<213> Artificial Sequence	
	<220>	
10	<223> Synthetic	
10	<400> 8 gatcagtcct gggtggtcat tgaaaggact gatgctgaag ttgaagctcc aatactttgg	60
15	ccacctgatg cgaagaactg actcatgtga taagaccctg atactgggaa agattgaagg	120
	caggaggaga agggatgaca gaggatggaa gagttggatg gaatcaccaa ctcgatggac	180
	atgagtttga gcaagcttcc aggagttggt aatgggcagg gaagcctggc gtgctgcagt	240
20	ccatggggtt gcaaagagtt ggacactact gagtgactga actgaactga	300
Sheet .	catggtacag aatataggat aaaaaagagg aagagtttgc cctgattctg aagagttgta	360
25 25 30 30	ggatataaaa gtttagaata cctttagttt ggaagtctta aattatttac ttaggatggg	420
230 40	tacccactgc aatataagaa atcaggcttt agagactgat gtagagagaa tgagccctgg	480
7.2	cataccagaa gctaacagct attggttata gctgttataa ccaatatata accaatatat	540
30=	tggttatata gcatgaagct tgatgccagc aatttgaagg aaccatttag aactagtatc	600
20000	ctaaactcta catgttccag gacactgatc ttaaagctca ggttcagaat cttgttttat	660
2	aggetetagg tgtatattgt ggggettece tggtggetea gatggtaaag tgtetgeetg	720
3 <b>3</b> 7	caatgtgggt gatctgggtt cgatccctgg cttgggaaga tcccctggag aaggaaatgg	780
37. 40.	caacccactc tagtactctt acctggaaaa ttccatggac agaggagcct tgtaagctac	840
4 <u>0</u>	agtccatggg attgcaaaga gttgaacaca actgagcaac taagcacagc acagtacagt	900
Ĩ	atacacctgt gaggtgaagt gaagtgaagg ttcaatgcag ggtctcctgc attgcagaaa	960
4.5	gattetttae catetgagee accagggaag eccaagaata etggagtggg tageetatte	1020
45	cttctccagg ggatcttccc atcccaggaa ttgaactgga gtctcctgca tttcaggtgg	1080
	attetteace agetgaacta ecaggtggat actaetecaa tattaaagtg ettaaagtee	1140
50	agttttccca cctttcccaa aaaggttggg tcactctttt ttaaccttct gtggcctact	1200
	ctgaggctgt ctacaagctt atatatttat gaacacattt attgcaagtt gttagtttta	1260
<i>E E</i>	gatttacaat gtggtatctg gctatttagt ggtattggtg gttggggatg gggaggctga	1320
55	tagcatetea gagggeaget agatactgte atacacaett tteaagttet eeatttttgt	1380
	gaaatagaaa gtctctggat ctaagttata tgtgattctc agtctctgtg gtcatattct	1440
60	attctactcc tgaccactca acaaggaacc aagatatcaa gggacacttg ttttgtttca	1500
	tgcctgggtt gagtgggcca tgacatatgt tctgggcctt gttacatggc tggattggtt	1560

<211> 5711

	ggacaagtgc	cagctctgat	cctgggactg	tggcatgtga	tgacatacac	cccctctcca	1620
		gtctctaggg					1680
5		cacttcttat					1740
		ccagaaccaa					1800
		ggtttgaact					1860
10		aaaggaaaag					1920
		atgaccagtc					1980
15	gcccctgagg	ctttctgcat	gaatataaat	atatgaaact	gagtgatgct	tccatttcag	2040
	gttcttgggg	gcgccgaatt	cgagctcggt	acccggggat	ctcgacggat	ccgattactt	2100
20	actggcaggt	gctgggggct	tccgagacaa	tcgcgaacat	ctacaccaca	caacaccgcc	2160
20	tcgaccaggg	tgagatatcg	gccggggacg	cggcggtggt	aattacaagc	gagatccgat	2220
2 <b>5</b> 1	tacttactgg	caggtgctgg	gggcttccga	gacaatcgcg	aacatctaca	ccacacaaca	2280
2 <b>5</b> 1	ccgcctcgac	cagggtgaga	tatcggccgg	ggacgcggcg	gtggtaatta	caagcgagat	2340
3 <b>0</b>	ctcgagaagc	ttgttgggaa	ttcaggccat	cgatcccgcc	gccaccatgg	aatggagctg	2400
	ggtctttctc	ttcttcctgt	cagtaactac	aggtgtccac	teegacatee	agatgaccca	2460
	gtctccagcc	tccctatctg	catctgtggg	agaaactgtc	actatcacat	gtcgagcaag	2520
	tgggaatatt	cacaattatt	tagcatggta	tcagcagaaa	cagggaaaat	ctcctcagct	2580
35.	cctggtctat	aatgcaaaaa	ccttagcaga	tggtgtgcca	tcaaggttca	gtggcagtgg	2640
	atcaggaaca	caatattctc	tcaagatcaa	cagcctgcag	cctgaagatt	ttgggagtta	2700
<b>40</b> ±	ttactgtcaa	catttttgga	gtactccgtg	gacgttcggt	ggaggcacca	agctggaaat	2760
Tým:	caaacgggct	gatgctgcac	caactgtatc	catcttccca	ccatccagtg	agcagttaac	2820
	atctggaggt	gcctcagtcg	tgtgcttctt	gaacaacttc	taccccaaag	acatcaatgt	2880
45	caagtggaag	attgatggca	gtgaacgaca	aaatggcgtc	ctgaacagtt	ggactgatca	2940
	ggacagcaaa	gacagcacct	acagcatgag	cagcaccctc	acattgacca	aggacgagta	3000
50	tgaacgacat	aacagctata	cctgtgaggc	cactcacaag	acatcaactt	cacccattgt	3060
•	caagagcttc	aacaggaatg	agtgttgaaa	gcatcgattt	cccctgaatt	cgcccctctc	3120
	cetececec	ccctaacgtt	actggccgaa	gccgcttgga	ataaggccgg	tgtgcgtttg	3180
55	tctatatgtt	attttccacc	atattgccgt	cttttggcaa	tgtgagggcc	cggaaacctg	3240
	-					ggaatgcaag	3300
60		tgtcgtgaag					3360
	ctgtagcgac	cctttgcagg	cagcggaacc	ccccacctgg	cgacaggtgc	ctctgcggcc	3420

		2222666	tgtataagat	acacctocaa	aggeggeaca	accccagtgc	cacqttqtqa	3480
								3540
			tgtggaaaga					3600
3	5		gaaggtaccc					
			ttagtcgagg					3660
	10		aaaaacacga					3720
		atcctattcc	atgccaccca	ggccgaggtt	cagcttcagc	agtctggggc	agagcttgtg	3780
		aagccagggg	cctcagtcaa	gttgtcctgc	acagcttctg	gcttcaacat	taaagacacc	3840
	15	tttatgcact	gggtgaagca	gaggcctgaa	cagggcctgg	agtggattgg	aaggattgat	3900
		cctgcgaatg	ggaatactga	atatgacccg	aagttccagg	gcaaggccac	tataacagca	3960
20	20	gacacatcct	ccaacacagt	caacctgcag	ctcagcagcc	tgacatctga	ggacactgcc	4020
	20	gtctattact	gtgctagtgg	aggggaactg	gggtttcctt	actggggcca	agggactctg	4080
	/ Nu/condes de controlled de de controlled de de de de de de de de de de de de de de de de de de de de de de de de de de de de de de de de de de de de de de de de de de de de de de de de de de de de de de de de de d	gtcactgtct	ctgcagccaa	aacgacaccc	ccatctgtct	atccactggc	ccctggatct	4140
	25	gctgcccaaa	ctaactccat	ggtgaccctg	ggatgcctgg	tcaagggcta	tttccctgag	4200
25 m	THE PARTY NAMED IN COLUMN TO THE PARTY NAMED	ccagtgacag	tgacctggaa	ctctggatcc	ctgtccagcg	gtgtgcacac	cttcccagct	4260
	الا الك.م	gtcctgcagt	ttgacctcta	cactctgagc	agctcagtga	ctgtcccctc	cagcacctgg	4320
	30=	cccagcgaga	ccgtcacctg	caacgttgcc	cacccggcca	gcagcaccaa	ggtggacaag	4380
	Ji	aaaattgtgc	ccagggattg	tactagtgga	ggtggaggta	gccaccatca	ccatcaccat	4440
		taatctagag	ttaagcggcc	gtcgagatct	cgacatcgat	aatcaacctc	tggattacaa	4500
	35 mm may 15 mm	aatttgtgaa	agattgactg	gtattcttaa	ctatgttgct	ccttttacgc	tatgtggata	4560
		cgctgcttta	atgcctttgt	atcatgctat	tgcttcccgt	atggctttca	ttttctcctc	4620
	40=	cttgtataaa	tcctggttgc	tgtctcttta	tgaggagttg	tggcccgttg	tcaggcaacg	4680
		tggcgtggtg	tgcactgtgt	ttgctgacgc	aacccccact	ggttggggca	ttgccaccac	4740
	45	ctgtcagctc	ctttccggga	ctttcgcttt	cccctccct	attgccacgg	cggaactcat	4800
		cgccgcctgc	cttgcccgct	gctggacagg	ggctcggctg	ttgggcactg	acaattccgt	4860
			gggaaatcat					4920
	50		acgtccttct					4980
							ctcagacgag	5040
	55		ctttgggccg					5100
							agcttaagta	5160
							cagatcaagg	5220
	60						aagcagttcc	5280
							J J	-

	tgccccggct cagggccaag aacagatgga acagctgaat atgggccaaa caggatatct	5340
	gtggtaagca gttcctgccc cggctcaggg ccaagaacag atggtcccca gatgcggtcc	5400
5	agccctcagc agtttctaga gaaccatcag atgtttccag ggtgccccaa ggacctgaaa	5460
	tgaccctgtg ccttatttga actaaccaat cagttcgctt ctcgcttctg ttcgcgcgct	5520
1.0	tetgetecce gageteaata aaagageeca caaceeetea eteggggege cagteeteeg	5580
10	attgactgag tcgcccgggt acccgtgtat ccaataaacc ctcttgcagt tgcatccgac	5640
	ttgtggtete getgtteett gggagggtet eetetgagtg attgaetace egteageggg	5700
15	ggtctttcat t	5711
	<210> 9	
20	<211> 5130	
20	<212> DNA	
	<213> Artificial Sequence	
25	<220>	
4.	<223> Synthetic	
2 3 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	<400> 9 tttgaaagac cccacccgta ggtggcaagc tagcttaagt aacgccactt tgcaaggcat	60
	ggaaaaatac ataactgaga atagaaaagt tcagatcaag gtcaggaaca aagaaacagc	120
3 5 mm m	tgaataccaa acaggatate tgtggtaage ggtteetgee eeggeteagg gecaagaaca	180
) ji	gatgagacag ctgagtgatg ggccaaacag gatatctgtg gtaagcagtt cctgccccgg	240
	ctcggggcca agaacagatg gtccccagat gcggtccagc cctcagcagt ttctagtgaa	300
40	tcatcagatg tttccagggt gccccaagga cctgaaaatg accctgtacc ttatttgaac	360
·	taaccaatca gttcgcttct cgcttctgtt cgcgcgcttc cgctctccga gctcaataaa	420
45	agageceaca accecteact eggegegeea gtetteegat agaetgegte geeegggtae	480
43	ccgtattccc aataaagcct cttgctgttt gcatccgaat cgtggtctcg ctgttccttg	540
	ggagggtete etetgagtga ttgactacce acgaeggggg tettteattt gggggetegt	600
50	ccgggatttg gagacccctg cccagggacc accgacccac caccgggagg taagctggcc	660
	agcaacttat ctgtgtctgt ccgattgtct agtgtctatg tttgatgtta tgcgcctgcg	720
55	tctgtactag ttagctaact agctctgtat ctggcggacc cgtggtggaa ctgacgagtt	780
	ctgaacaccc ggccgcaacc ctgggagacg tcccagggac tttgggggcc gtttttgtgg	840
	cccgacctga ggaagggagt cgatgtggaa tccgaccccg tcaggatatg tggttctggt	900
60	aggagacgag aacctaaaac agttcccgcc tccgtctgaa tttttgcttt cggtttggaa	960
	ccgaagccgc gcgtcttgtc tgctgcagcc aagcttgggc tgcaggtcga ggactgggga	1020

		ccctgcaccg	aacatggaga	acacaacatc	aggattccta	ggacccctgc	tcgtgttaca	1080
		ggcggggttt	ttcttgttga	caagaatcct	cacaatacca	cagagtctag	actcgtggtg	1140
	5	gacttctctc	aattttctag	ggggagcacc	cacgtgtcct	ggccaaaatt	cgcagtcccc	1200
		aacctccaat	cactcaccaa	cctcttgtcc	tccaatttgt	cctggctatc	gctggatgtg	1260
	10	tctgcggcgt	tttatcatat	tcctcttcat	cctgctgcta	tgcctcatct	tcttgttggt	1320
	10	tcttctggac	taccaaggta	tgttgcccgt	ttgtcctcta	cttccaggaa	catcaactac	1380
		cagcacggga	ccatgcaaga	cctgcacgat	tcctgctcaa	ggaacctcta	tgtttccctc	1440
15	ttgttgctgt	acaaaacctt	cggacggaaa	ctgcacttgt	attcccatcc	catcatcctg	1500	
		ggctttcgca	agattcctat	gggagtgggc	ctcagtccgt	ttctcctggc	tcagtttact	1560
	20	agtgccattt	gttcagtggt	tcgtagggct	ttcccccact	gtttggcttt	cagttatatg	1620
	20	gatgatgtgg	tattgggggc	caagtctgta	caacatcttg	agtccctttt	tacctctatt	1680
		accaattttc	ttttgtcttt	gggtatacat	ttaaacccta	ataaaaccaa	acgttggggc	1740
25 30	250	tactccctta	acttcatggg	atatgtaatt	ggatgttggg	gtactttacc	gcaagaacat	1800
		attgtactaa	aaatcaagca	atgttttcga	aaactgcctg	taaatagacc	tattgattgg	1860
	2 <b>5</b>	aaagtatgtc	agagacttgt	gggtcttttg	ggctttgctg	ccccttttac	acaatgtggc	1920
		tatcctgcct	taatgccttt	atatgcatgt	atacaatcta	agcaggcttt	cactttctcg	1980
	35 35 40	ccaacttaca	aggcctttct	gtgtaaacaa	tatctgaacc	tttaccccgt	tgcccggcaa	2040
	35	cggtcaggtc	tctgccaagt	gtttgctgac	gcaaccccca	ctggatgggg	cttggctatc	2100
	.C	ggccatagcc	gcatgcgcgg	acctttgtgg	ctcctctgcc	gatccatact	gcggaactcc	2160
	↓ ⊿k÷	tagcagcttg	ttttgctcgc	aggcggtctg	gagcgaaact	tatcggcacc	gacaactctg	2220
	40	ttgtcctctc	tcggaaatac	acctcctttc	catggctgct	agggtgtgct	gccaactgga	2280
		tcccctcagg	atatagtagt	ttcgcttttg	catagggagg	gggaaatgta	gtcttatgca	2340
	45	atacacttgt	agtcttgcaa	catggtaacg	atgagttagc	aacatgcctt	acaaggagag	2400
		aaaaagcacc	gtgcatgccg	attggtggaa	gtaaggtggt	acgatcgtgc	cttattagga	2460
	50	aggcaacaga	caggtctgac	atggattgga	cgaaccactg	aattccgcat	tgcagagata	2520
	30	attgtattta	agtgcctagc	tcgatacagc	aaacgccatt	tttgaccatt	caccacattg	2580
		gtgtgcacct	tccaaagctt	cacgctgccg	caagcactca	gggcgcaagg	gctgctaaag	2640
	55	gaagcggaac	acgtagaaag	ccagtccgca	gaaacggtgc	tgaccccgga	tgaatgtcag	2700
		ctactgggct	atctggacaa	gggaaaacgc	aagcgcaaag	agaaagcagg	tagcttgcag	2760
	60	tgggcttaca	tggcgatagc	tagactgggc	ggttttatgg	acagcaagco	g aaccggaatt	2820
	00	gccagctggg	gegeeetetg	gtaaggttgg	gaagccctgc	aaagtaaact	ggatggcttt	2880

	cttgccgcca	aggatctgat	ggcgcagggg	atcaagatct	gatcaagaga	caggatgagg	2940
	atcgtttcgc	atgattgaac	aagatggatt	gcacgcaggt	tctccggccg	cttgggtgga	3000
5	gaggctattc	ggctatgact	gggcacaaca	gacaatcggc	tgctctgatg	ccgccgtgtt	3060
	ccggctgtca	gcgcaggggc	gcccggttct	ttttgtcaag	accgacctgt	ccggtgccct	3120
10	gaatgaactg	caggacgagg	cagcgcggct	atcgtggctg	gccacgacgg	gcgttccttg	3180
10	cgcagctgtg	ctcgacgttg	tcactgaagc	gggaagggac	tggctgctat	tgggcgaagt	3240
	gccggggcag	gatctcctgt	catctcacct	tgctcctgcc	gagaaagtat	ccatcatggc	3300
15	tgatgcaatg	cggcggctgc	atacgcttga	tccggctacc	tgcccattcg	accaccaagc	3360
	gaaacatcgc	atcgagcgag	cacgtactcg	gatggaagcc	ggtcttgtcg	atcaggatga	3420
20	tctggacgaa	gagcatcagg	ggctcgcgcc	agccgaactg	ttcgccaggc	tcaaggcgcg	3480
20	catgcccgac	ggcgaggatc	tcgtcgtgac	ccatggcgat	gcctgcttgc	cgaatatcat	3540
	ggtggaaaat	ggccgctttt	ctggattcat	cgactgtggc	cggctgggtg	tggcggaccg	3600
25	ctatcaggac	atagcgttgg	ctacccgtga	tattgctgaa	gagcttggcg	gcgaatgggc	3660
	tgaccgcttc	ctcgtgcttt	acggtatcgc	cgctcccgat	tegeagegea	tcgccttcta	3720
30	tcgccttctt	gacgagttct	tctgagcggg	actctggggt	tcgaaatgac	cgaccaagcg	3780
	acgcccaacc	tgccatcacg	agatttcgat	tccaccgccg	ccttctatga	aaggttgggc	3840
#		ttttccggga	cgccggctgg	atgatcctcc	agcgcgggga	tctcatgctg	3900
35 40	gagttcttcg	cccaccccaa	ccctggccct	attattgggt	ggactaacca	tggggggaat	3960
	tgccgctgga	ataggaacag	ggactactgc	tctaatggcc	actcagcaat	tccagcagct	4020
46	ccaagccgca	gtacaggatg	atctcaggga	ggttgaaaaa	tcaatctcta	acctagaaaa	4080
		tccctgtctg	aagttgtcct	acagaatcga	aggggcctag	acttgttatt	4140
	tctaaaagaa	ggagggctgt	gtgctgctct	aaaagaagaa	tgttgcttct	atgcggacca	4200
45	cacaggacta	gtgagagaca	gcatggccaa	attgagagag	aggcttaatc	agagacagaa	4260
	actgtttgag	tcaactcaag	gatggtttga	gggactgttt	aacagatccc	cttggtttac	4320
50	caccttgata	tctaccatta	tgggacccct	cattgtactc	ctaatgattt	tgctcttcgg	4380
50	accctgcatt	cttaatcgat	tagtccaatt	tgttaaagac	aggatatcag	tggtccaggc	4440
	tctagttttg	actcaacaat	atcaccagct	gaagcctata	gagtacgagc	catagataaa	4500
55	ataaaagatt	ttatttagtc	tccagaaaaa	ggggggaatg	aaagacccca	cctgtaggtt	4560
	tggcaagcta	gcttaagtaa	cgccattttg	caaggcatgg	aaaaatacat	aactgagaat	4620
60	agagaagtto	agatcaaggt	caggaacaga	tggaacagct	gaatatgggc	caaacaggat	4680
50	atctgtggta	. agcagttcct	gccccggctc	agggccaaga	acagatggaa	cagctgaata	4740

	tgggccaaac aggatatctg tggtaagcag ttcctgcccc ggctcagggc caagaacaga	4800
	tggtccccag atgcggtcca gccctcagca gtttctagag aaccatcaga tgtttccagg	4860
5	gtgccccaag gacctgaaat gaccctgtgc cttatttgaa ctaaccaatc agttcgcttc	4920
	tegettetgt tegegegett etgeteeceg ageteaataa aagageecae aaceceteae	4980
10	teggggegee agteeteega ttgaetgagt egeeegggta eeegtgtate caataaacee	5040
10	tettgeagtt geateegaet tgtggteteg etgtteettg ggagggtete etetgagtga	5100
	ttgactaccc gtcagcgggg gtctttcatt	5130
15	<210> 10	
	<211> 4661	
	<212> DNA	
20	<213> Artificial Sequence	
	<220>	
25 7 30 30	<223> Synthetic	
14.4	<400> 10	60
	gatcagtcct gggtggtcat tgaaaggact gatgctgaag ttgaagctcc aatactttgg	120
30 <del>-</del>	ccacctgatg cgaagaactg actcatgtga taagaccctg atactgggaa agattgaagg	
21 4*****	caggaggaga agggatgaca gaggatggaa gagttggatg gaatcaccaa ctcgatggac	180
14 3∰	atgagtttga gcaagcttcc aggagttggt aatgggcagg gaagcctggc gtgctgcagt	240
	ccatggggtt gcaaagagtt ggacactact gagtgactga actgaactga	300
35	catggtacag aatataggat aaaaaagagg aagagtttgc cctgattctg aagagttgta	360
4 <b>0</b> -	ggatataaaa gtttagaata cctttagttt ggaagtctta aattatttac ttaggatggg	420
	tacccactgc aatataagaa atcaggcttt agagactgat gtagagagaa tgagccctgg	480
4.7	cataccagaa gctaacagct attggttata gctgttataa ccaatatata accaatatat	540
45	tggttatata gcatgaagct tgatgccagc aatttgaagg aaccatttag aactagtatc	600
	ctaaactcta catgttccag gacactgatc ttaaagctca ggttcagaat cttgttttat	660
50	aggetetagg tgtatattgt ggggettece tggtggetea gatggtaaag tgtetgeetg	720
	caatgtgggt gatctgggtt cgatccctgg cttgggaaga tcccctggag aaggaaatgg	780
	caacccactc tagtactctt acctggaaaa ttccatggac agaggagcct tgtaagctac	840
55	agtccatggg attgcaaaga gttgaacaca actgagcaac taagcacagc acagtacagt	900
	atacacctgt gaggtgaagt gaagtgaagg ttcaatgcag ggtctcctgc attgcagaaa	960
60	gattetttae catetgagee accagggaag cecaagaata etggagtggg tageetatte	1020
	cttctccagg ggatcttccc atcccaggaa ttgaactgga gtctcctgca tttcaggtgg	1080

attcttcacc	agctgaacta	ccaggtggat	actactccaa	tattaaagtg	cttaaagtcc	1140
agttttccca	cctttcccaa	aaaggttggg	tcactctttt	ttaaccttct	gtggcctact	1200
ctgaggctgt	ctacaagctt	atatatttat	gaacacattt	attgcaagtt	gttagtttta	1260
gatttacaat	gtggtatctg	gctatttagt	ggtattggtg	gttggggatg	gggaggctga	1320
tagcatctca	gagggcagct	agatactgtc	atacacactt	ttcaagttct	ccatttttgt	1380
gaaatagaaa	gtctctggat	ctaagttata	tgtgattctc	agtctctgtg	gtcatattct	1440
attctactcc	tgaccactca	acaaggaacc	aagatatcaa	gggacacttg	ttttgtttca	1500
tgcctgggtt	gagtgggcca	tgacatatgt	tctgggcctt	gttacatggc	tggattggtt	1560
ggacaagtgc	cagctctgat	cctgggactg	tggcatgtga	tgacatacac	cccctctcca	1620
cattctgcat	gtctctaggg	gggaaggggg	aagctcggta	tagaaccttt	attgtatttt	1680
ctgattgcct	cacttcttat	attgccccca	tgcccttctt	tgttcctcaa	gtaaccagag	1740
acagtgcttc	ccagaaccaa	ccctacaaga	aacaaagggc	taaacaaagc	caaatgggaa	1800
gcaggatcat	ggtttgaact	ctttctggcc	agagaacaat	acctgctatg	gactagatac	1860
tgggagaggg	aaaggaaaag	tagggtgaat	tatggaagga	agctggcagg	ctcagcgttt	1920
ctgtcttggc	atgaccagtc	tctcttcatt	ctcttcctag	atgtagggct	tggtaccaga	1980
gcccctgagg	ctttctgcat	gaatataaat	atatgaaact	gagtgatgct	tccatttcag	2040
gttcttgggg	gcgccgaatt	cgagctcggt	acccggggat	ctcgagaagc	tttaaccatg	2100
gaatggagct	gggtctttct	cttcttcctg	tcagtaacta	caggtgtcca	ctcccaggtt	2160
cagttgcagc	agtctgacgc	tgagttggtg	aaacctgggg	cttcagtgaa	gatttcctgc	2220
aaggcttctg	gctacacctt	cactgaccat	gcaattcact	gggtgaaaca	gaaccctgaa	2280
cagggcctgg	aatggattgg	atatttttct	cccggaaatg	atgattttaa	atacaatgag	2340
aggttcaagg	gcaaggccac	actgactgca	gacaaatcct	ccagcactgc	ctacgtgcag	2400
ctcaacagcc	tgacatctga	ggattctgca	gtgtatttct	gtacaagatc	cctgaatatg	2460
gcctactggg	gtcaaggaac	ctcagtcacc	gtctcctcag	gaggcggagg	cagcggaggc	2520
ggtggctcgg	gaggcggagg	ctcggacatt	gtgatgtcac	agtctccatc	ctccctacct	2580
gtgtcagttg	gcgagaaggt	tactttgagc	tgcaagtcca	gtcagagcct	tttatatagt	2640
ggtaatcaaa	agaactactt	ggcctggtac	cagcagaaac	cagggcagtc	tcctaaactg	2700
ctgatttact	gggcatccgc	tagggaatct	ggggtccctg	atcgcttcac	aggcagtgga	2760
tctgggacag	atttcactct	ctccatcagc	agtgtgaaga	. ctgaagacct	ggcagtttat	2820
tactgtcagc	agtattatag	ctatcccctc	acgttcggtg	ctgggaccaa	gctggtgctg	2880
aaacgggccg	ccgagcccaa	atctcctgac	aaaactcaca	catgcccacc	gtgcccagca	2940

	cetgaactee tggggggace gteagtette etetteeece caaaacecaa ggacaceete	3000
	atgatetece ggaeceetga ggteacatge gtggtggtgg aegtgageea egaagaeeet	3060
5	gaggtcaagt tcaactggta cgtggacggc gtggaggtgc ataatgccaa gacaaagccg	3120
	cgggaggagc agtacaacag cacgtaccgt gtggtcagcg tcctcaccgt cctgcaccag	3180
1.0	gactggctga atggcaagga gtacaagtgc aaggtctcca acaaagccct cccagccccc	3240
10	atcgagaaaa ccatctccaa agccaaaggg cagccccgag aaccacaggt gtacaccctg	3300
	ccccatccc gggatgagct gaccaagaac caggtcagcc tgacctgcct ggtcaaaggc	3360
15	ttctatccca gcgacatcgc cgtggagtgg gagagcaatg ggcagccgga gaacaactac	3420
	aagaccacgc ctcccgtgct ggactccgac ggctccttct tcctctacag caagctcacc	3480
20	gtggacaaga gcaggtggca gcaggggaac gtcttctcat gctccgtgat gcatgaggct	3540
20	ctgcacaacc actacacgca gaagagcctc teectgtete egggtaaagg aggeggatea	3600
Appropriate Control of	ggaggtggcg cacctacttc aagttctaca aagaaaacac agctacaact ggagcattta	3660
	ctgctggatt tacagatgat tttgaatgga attaataatt acaagaatcc caaactcacc	3720
	aggatgctca catttaagtt ttacatgccc aagaaggcca cagaactgaa acatcttcag	3780
2 <b>5</b>	tgtctagaag aagaactcaa acctctggag gaagtgctaa atttagctca aagcaaaaac	3840
	tttcacttaa gacccaggga cttaatcagc aatatcaacg taatagttct ggaactaaag	3900
	ggatctgaaa caacattcat gtgtgaatat gctgatgaga cagcaaccat tgtagaattt	3960
35	ctgaacagat ggattacctt ttgtcaaagc atcatctcaa cactaacttg aagcttgtta	4020
Marie	acatcgataa aataaaagat tttatttagt ctccagaaaa aggggggaat gaaagacccc	4080
<b>40</b>	acctgtaggt ttggcaagct agcttaagta acgccatttt gcaaggcatg gaaaaataca	4140
T⊌	taactgagaa tagagaagtt cagatcaagg tcaggaacag atggaacagc tgaatatggg	4200
	ccaaacagga tatctgtggt aagcagttcc tgccccggct cagggccaag aacagatgga	4260
45	acagctgaat atgggccaaa caggatatct gtggtaagca gttcctgccc cggctcaggg	4320
	ccaagaacag atggtcccca gatgcggtcc agccctcagc agtttctaga gaaccatcag	4380
50	atgtttccag ggtgccccaa ggacctgaaa tgaccctgtg ccttatttga actaaccaat	4440
50	cagttegett etegettetg ttegegeget tetgeteeee gageteaata aaagageeea	4500
	caaccectca cteggggege cagteeteeg attgactgag tegeeegggt accegtgtat	4560
55	ccaataaacc ctcttgcagt tgcatccgac ttgtggtctc gctgttcctt gggagggtct	4620
	cctctgagtg attgactacc cgtcagcggg ggtctttcat t	4661
60	<210> 11	
	-211 5691	

<211> 5691

<212> DNA <213> Artificial Sequence 5 <220> <223> Synthetic <400> 11 gatcagtcct gggtggtcat tgaaaggact gatgctgaag ttgaagctcc aatactttgg 60 10 ccacctgatg cgaagaactg actcatgtga taagaccctg atactgggaa agattgaagg 120 caggaggaga agggatgaca gaggatggaa gagttggatg gaatcaccaa ctcgatggac 180 15 atgagtttga gcaagcttcc aggagttggt aatgggcagg gaagcctggc gtgctgcagt 240 300 360 catggtacag aatataggat aaaaaagagg aagagtttgc cctgattctg aagagttgta 20 420 ggatataaaa gtttagaata cctttagttt ggaagtctta aattatttac ttaggatggg 250 250 10 300 tacccactgc aatataagaa atcaggcttt agagactgat gtagagagaa tgagccctgg 480 cataccagaa gctaacagct attggttata gctgttataa ccaatatata accaatatat 540 600 tggttatata gcatgaagct tgatgccagc aatttgaagg aaccatttag aactagtatc 660 ctaaactcta catgttccag gacactgatc ttaaagctca ggttcagaat cttgttttat aggetetagg tgtatattgt ggggetteee tggtggetea gatggtaaag tgtetgeetg 720 3**; 3** caatgtgggt gatctgggtt cgatccctgg cttgggaaga tcccctggag aaggaaatgg 780 840 caacccactc tagtactctt acctggaaaa ttccatggac agaggagcct tgtaagctac 900 960 atacacctgt gaggtgaagt gaagtgaagg ttcaatgcag ggtctcctgc attgcagaaa **40**÷ gattetttae catetgagee accagggaag cecaagaata etggagtggg tageetatte 1020 cttctccagg ggatcttccc atcccaggaa ttgaactgga gtctcctgca tttcaggtgg 1080 45 1140 attetteace agetgaacta ceaggtggat actaeteeaa tattaaagtg ettaaagtee agttttccca cctttcccaa aaaggttggg tcactctttt ttaaccttct gtggcctact 1200 ctgaggctgt ctacaagctt atatatttat gaacacattt attgcaagtt gttagtttta 1260 50 1320 gatttacaat gtggtatctg gctatttagt ggtattggtg gttggggatg gggaggctga tagcatctca gagggcagct agatactgtc atacacactt ttcaagttct ccatttttgt 1380 55 1440 gaaatagaaa gtctctggat ctaagttata tgtgattctc agtctctgtg gtcatattct attctactcc tgaccactca acaaggaacc aagatatcaa gggacacttg ttttgtttca 1500 1560 tgcctgggtt gagtgggcca tgacatatgt tctgggcctt gttacatggc tggattggtt 60 ggacaagtgc cagctctgat cctgggactg tggcatgtga tgacatacac cccctctcca 1620

	cattctgcat	gtctctaggg	gggaaggggg	aagctcggta	tagaaccttt	attgtatttt	1680
	ctgattgcct	cacttcttat	attgccccca	tgcccttctt	tgttcctcaa	gtaaccagag	1740
5	acagtgcttc	ccagaaccaa	ccctacaaga	aacaaagggc	taaacaaagc	caaatgggaa	1800
	gcaggatcat	ggtttgaact	ctttctggcc	agagaacaat	acctgctatg	gactagatac	1860
1.0	tgggagaggg	aaaggaaaag	tagggtgaat	tatggaagga	agctggcagg	ctcagcgttt	1920
10	ctgtcttggc	atgaccagtc	tctcttcatt	ctcttcctag	atgtagggct	tggtaccaga	1980
	gcccctgagg	ctttctgcat	gaatataaat	atatgaaact	gagtgatgct	tccatttcag	2040
15	gttcttgggg	gcgccgaatt	cgagctcggt	acccggggat	ctcgacggat	ccgattactt	2100
	actggcaggt	gctgggggct	tccgagacaa	tcgcgaacat	ctacaccaca	caacaccgcc	2160
20	tcgaccaggg	tgagatatcg	gccggggacg	cggcggtggt	aattacaagc	gagatccgat	2220
20	tacttactgg	caggtgctgg	gggcttccga	gacaatcgcg	aacatctaca	ccacacaaca	2280
· Ballings	ccgcctcgac	cagggtgaga	tatcggccgg	ggacgcggcg	gtggtaatta	caagcgagat	2340
	ctcgagttaa	cagatctagg	cctcctaggt	cgacggatcc	ccgggaattc	ggcgccgcca	2400
7.5 E	ccatgatgtc	ctttgtctct	ctgctcctgg	taggcatcct	attccatgcc	acccaggccc	2460
	aggtccaact	gcagcagtct	gggcctgagc	tggtgaagcc	tgggacttca	gtgaggatat	2520
39 <u>-</u>	cctgcaaggc	ttctggctac	accttcacaa	gctactattt	acactgggtg	aagcagaggc	2580
8ef 1	ctggacaggg	acttgagtgg	attgcatgga	tttatcctgg	aaatgttatt	actacgtaca	2640
3	atgagaagtt	caagggcaag	gccacactga	ctgcagacaa	atcctccagc	acagcctaca	2700
40°	tgcacctcaa	cagcctgacc	tctgaggact	ctgcggtcta	tttctgtgca	aggggtgacc	2760
	atgatcttga	ctactggggc	caaggcacca	ctctcacagt	ctcctcagcc	aaaacgacac	2820
40	ccccatctgt	ctatccactg	gcccctggat	ctgctgccca	aactaactcc	atggtgaccc	2880
	tgggatgcct	ggtcaagggc	tatttccctg	agccagtgac	agtgacctgg	aactctggat	2940
45	ccctgtccag	cggtgtgcac	accttcccag	ctgtcctgca	gtctgacctc	tacactctga	3000
	gcagctcagt	gactgtcccc	tccagcacct	ggcccagcga	gaccgtcacc	tgcaacgttg	3060
50	cccacccggc	cagcagcacc	aaggtggaca	agaaaattgt	gcccagggat	tgtactagtg	3120
50	gaggtggagg	tagctaaggg	agatctcgac	ggatccccgg	gaattcgccc	ctctccctcc	3180
	cccccccta	acgttactgg	ccgaagccgc	ttggaataag	geeggtgtgc	gtttgtctat	3240
55	atgttatttt	ccaccatatt	gccgtctttt	ggcaatgtga	gggcccggaa	acctggccct	3300
	gtcttcttga	cgagcattcc	taggggtctt	teceeteteg	ccaaaggaat	gcaaggtctg	3360
60	ttgaatgtcg	tgaaggaagc	agttcctctg	gaagcttctt	gaagacaaac	: aacgtctgta	3420
υυ	gcgacccttt	gcaggcagcg	gaacccccca	. cctggcgaca	ggtgcctctg	g cggccaaaag	3480

3540 ccacgtgtat aagatacacc tgcaaaggcg gcacaacccc agtgccacgt tgtgagttgg atagttgtgg aaagagtcaa atggctctcc tcaagcgtat tcaacaaggg gctgaaggat 3600 gcccagaagg taccccattg tatgggatct gatctggggc ctcggtgcac atgctttaca 3660 tgtgtttagt cgaggttaaa aaaacgtcta ggccccccga accacgggga cgtggttttc 3720 ctttgaaaaa cacgatgata atatggcctc ctttgtctct ctgctcctgg taggcatcct 3780 attccatgcc acccaggccg acattgtgct gacacaatct ccagcaatca tgtctgcatc 3840 tccaggggag aaggtcacca tgacctgcag tgccacctca agtgtaagtt acatacactg 3900 3960 gtaccagcag aagtcaggca cctcccccaa aagatggatt tatgacacat ccaaactggc ttctggagtc cctgctcgct tcagtggcag tgggtctggg acctctcact ctctcacact 4020 cagcagcatg gaggetgaag atgetgeeac ttattactge cagcagtggg gtagttacet 4080 4140 cacgttcggt gcggggacca agctggagct gaaacgggct gatgctgcac caactgtatc 4200 25007300m 35000401 catcttccca ccatccagtg agcagttaac atctggaggt gcctcagtcg tgtgcttctt 4260 gaacaacttc taccccaaag acatcaatgt caagtggaag attgatggca gtgaacgaca 4320 aaatggcgtc ctgaacagtt ggactgatca ggacagcaaa gacagcacct acagcatgag 4380 cagcaccctc acgttgacca aggacgagta tgaacgacat aacagctata cctgtgaggc 4440 cactcacaag acatcaactt cacccattgt caagagette aacaggaatg agtgttaata 4500 ggggagatet egacategat aateaacete tggattacaa aatttgtgaa agattgaetg gtattcttaa ctatgttgct ccttttacgc tatgtggata cgctgcttta atgcctttgt 4560 atcatgctat tgcttcccgt atggctttca ttttctcctc cttgtataaa tcctggttgc 4620 tgtctcttta tgaggagttg tggcccgttg tcaggcaacg tggcgtggtg tgcactgtgt 4680 ttgctgacgc aacccccact ggttggggca ttgccaccac ctgtcagctc ctttccggga 4740 4800 ctttcgcttt ccccctccct attgccacgg cggaactcat cgccgcctgc cttgcccgct gctggacagg ggctcggctg ttgggcactg acaattccgt ggtgttgtcg gggaaatcat 4860 cgtcctttcc ttggctgctc gcctgtgttg ccacctggat tctgcgcggg acgtccttct 4920 4980 gctacgtccc ttcggccctc aatccagcgg accttccttc ccgcggcctg ctgccggctc tgcggcctct tccgcgtctt cgccttcgcc ctcagacgag tcggatctcc ctttgggccg 5040 cctccccgcc tgatcgataa aataaaagat tttatttagt ctccagaaaa aggggggaat 5100 5160 gaaagacccc acctgtaggt ttggcaagct agcttaagta acgccatttt gcaaggcatg gaaaaataca taactgagaa tagagaagtt cagatcaagg tcaggaacag atggaacagc 5220 5280 tgaatatggg ccaaacagga tatctgtggt aagcagttcc tgccccggct cagggccaag aacagatgga acagctgaat atgggccaaa caggatatct gtggtaagca gttcctgccc 5340

5

10

15

20

45

50

55

	cggctcaggg ccaagaacag atggtcccca gatgcggtcc agccctcagc agtttctaga	5400
	gaaccatcag atgtttccag ggtgccccaa ggacctgaaa tgaccctgtg ccttatttga	5460
5	actaaccaat cagttegett etegettetg ttegegeget tetgeteece gageteaata	5520
	aaagagccca caacccctca ctcggggcgc cagtcctccg attgactgag tcgcccgggt	5580
10	accegtgtat ccaataaacc ctcttgcagt tgcatcegac ttgtggtctc gctgttcctt	5640
10	gggagggtct cctctgagtg attgactacc cgtcagcggg ggtctttcat t	5691
	<210> 12	
15	<211> 668	
	<212> DNA	
20	<213> Artificial Sequence	
20	<220>	
	<223> Synthetic	
25	<400> 12 ggaattcgcc cctctccctc cccccccct aacgttactg gccgaagccg cttggaataa	60
	ggccggtgtg cgtttgtcta tatgttattt tccaccatat tgccgtcttt tggcaatgtg	120
30	agggcccgga aacctggccc tgtcttcttg acgagcattc ctaggggtct ttcccctctc	180
	gccaaaggaa tgcaaggtct gttgaatgtc gtgaaggaag cagttcctct ggaagcttct	240
<u> </u>	tgaagacaaa caacgtctgt agcgaccctt tgcaggcagc ggaacccccc acctggcgac	300
	aggtgcctct gcggccaaaa gccacgtgta taagatacac ctgcaaaggc ggcacaaccc	360
	cagtgccacg ttgtgagttg gatagttgtg gaaagagtca aatggctctc ctcaagcgta	420
40	ttcaacaagg ggctgaagga tgcccagaag gtaccccatt gtatgggatc tgatctgggg	480
*	cctcggtgca catgctttac atgtgtttag tcgaggttaa aaaaacgtct aggccccccg	540
45	aaccacgggg acgtggtttt cctttgaaaa acacgatgat aatatggcct tgctcatcct	600
43	tacctgtctt gtggctgttg ctcttgccgg cgccatggga tatctagatc tcgagctcgc	660
	gaaagctt	668
50	<210> 13	
	<211> 6255	
55	<212> DNA	
	<213> Artificial Sequence	
60	<220>	

<223> Synthetic

	<400> 13 tttgaaagac cccacccg	ta ggtggcaagc	tagcttaagt	aacgccactt	tgcaaggcat	60
_	ggaaaaatac ataactga	ga atagaaaagt	tcagatcaag	gtcaggaaca	aagaaacagc	120
5	tgaataccaa acaggata	c tgtggtaagc	ggttcctgcc	ccggctcagg	gccaagaaca	180
	gatgagacag ctgagtga	g ggccaaacag	gatatctgtg	gtaagcagtt	cctgccccgg	240
10	ctcggggcca agaacaga	g gtccccagat	gcggtccagc	cctcagcagt	ttctagtgaa	300
	tcatcagatg tttccagg	gt gccccaagga	cctgaaaatg	accctgtacc	ttatttgaac	360
1.5	taaccaatca gttcgctt	ct cgcttctgtt	cgcgcgcttc	cgctctccga	gctcaataaa	420
15	agageceaca accectea	ct cggcgcgcca	gtcttccgat	agactgcgtc	gcccgggtac	480
	ccgtattccc aataaagc	ct cttgctgttt	gcatccgaat	cgtggtctcg	ctgttccttg	540
20	ggagggtete etetgagt	ga ttgactacco	acgacggggg	tctttcattt	gggggctcgt	600
4 sichnig Mann für	ccgggatttg gagacccc	tg cccagggacc	accgacccac	caccgggagg	taagctggcc	660
	agcaacttat ctgtgtct	gt ccgattgtct	agtgtctatg	tttgatgtta	tgcgcctgcg	720
	tctgtactag ttagctaa	ct agctctgtat	. ctggcggacc	cgtggtggaa	ctgacgagtt	780
A STOCKER	ctgaacaccc ggccgcaa	cc ctgggagacg	tcccagggac	tttgggggcc	gtttttgtgg	840
30	cccgacctga ggaaggga	gt cgatgtggaa	teegaeeeeg	tcaggatatg	tggttctggt	900
of Carried	aggagacgag aacctaaa	ac agttcccgcc	: tccgtctgaa	tttttgcttt	cggtttggaa	960
3 <b>5</b>	ccgaagccgc gcgtcttg	tc tgctgcagcg	ctgcagcatc	gttctgtgtt	gtctctgtct	1020
35	gactgtgttt ctgtattt	gt ctgaaaatta	gggccagact	gttaccactc	ccttaagttt	1080
The state of the s	gaccttaggt cactggaa	ag atgtcgagcg	g gatcgctcac	aaccagtcgg	tagatgtcaa	1140
40	gaagagacgt tgggttac	ct tetgetetge	agaatggcca	acctttaacg	tcggatggcc	1200
*	gcgagacggc acctttaa	cc gagacctcat	: cacccaggtt	aagatcaagg	tcttttcacc	1260
15	tggcccgcat ggacaccc	ag accaggtcc	ctacatcgtg	acctgggaag	ccttggcttt	1320
45	tgacccccct ccctgggt	ca agccctttgt	acaccctaag	cctccgcctc	ctcttcctcc	1380
	atccgccccg tctctccc	cc ttgaacctco	tegttegace	ccgcctcgat	cctcccttta	1440
50	tccagccctc actccttc	tc taggcgccgg	g aattccgatc	tgatcaagag	acaggatgag	1500
	gatcgtttcg catgattg	aa caagatggat	tgcacgcagg	ttctccggcc	gcttgggtgg	1560
55	agaggctatt cggctate	ac tgggcacaa	c agacaatcgg	ctgctctgat	gccgccgtgt	1620
33	tccggctgtc agcgcagg	gg cgcccggtt	c tttttgtcaa	gaccgacctg	tccggtgccc	1680
	tgaatgaact gcaggac	ag gcagcgcgg	c tatcgtggct	ggccacgacg	ggcgttcctt	1740
60	gcgcagctgt gctcgac	tt gtcactgaa	g cgggaaggga	ı ctggctgcta	ttgggcgaag	1800
	tgccggggca ggatctcc	tg tcatctcac	c ttgctcctgc	: cgagaaagta	tccatcatgg	1860

	ctgatgcaat	gcggcggctg	catacgcttg	atccggctac	ctgcccattc	gaccaccaag	1920
	cgaaacatcg	catcgagcga	gcacgtactc	ggatggaagc	cggtcttgtc	gatcaggatg	1980
5	atctggacga	agagcatcag	gggctcgcgc	cagccgaact	gttcgccagg	ctcaaggcgc	2040
	gcatgcccga	cggcgaggat	ctcgtcgtga	cccatggcga	tgcctgcttg	ccgaatatca	2100
10	tggtggaaaa	tggccgcttt	tctggattca	tcgactgtgg	ccggctgggt	gtggcggacc	2160
10	gctatcagga	catagcgttg	gctacccgtg	atattgctga	agagcttggc	ggcgaatggg	2220
	ctgaccgctt	cctcgtgctt	tacggtatcg	ccgctcccga	ttcgcagcgc	atcgccttct	2280
15	atcgccttct	tgacgagttc	ttctgagcgg	gactctgggg	ttcgaaatga	ccgaccaagc	2340
	gacgcccaac	ctgccatcac	gagatttcga	ttccaccgcc	gccttctatg	aaaggttggg	2400
20	cttcggaatc	gttttccggg	acgccggctg	gatgatcctc	cagcgcgggg	atctcatgct	2460
20	ggagttcttc	gcccaccccg	ggctcgatcc	cctcgcgagt	tggttcagct	gctgcctgag	2520
2 TO A	gctggacgac	ctcgcggagt	tctaccggca	gtgcaaatcc	gtcggcatcc	aggaaaccag	2580
	cagcggctat	ccgcgcatcc	atgcccccga	actgcaggag	tggggaggca	cgatggccgc	2640
41	tttggtcgag	gcggatccgg	ccattagcca	tattattcat	tggttatata	gcataaatca	2700
20-	atattggcta	ttggccattg	catacgttgt	atccatatca	taatatgtac	atttatattg	2760
o e	gctcatgtcc	aacattaccg	ccatgttgac	attgattatt	gactagttat	taatagtaat	2820
£1	caattacggg	gtcattagtt	catagcccat	atatggagtt	ccgcgttaca	taacttacgg	2880
35	taaatggccc	gcctggctga	ccgcccaacg	acccccgccc	attgacgtca	ataatgacgt	2940
	atgttcccat	agtaacgcca	atagggactt	tccattgacg	tcaatgggtg	gagtatttac	3000
	ggtaaactgc	ccacttggca	gtacatcaag	tgtatcatat	gccaagtacg	ccccctattg	3060
40	acgtcaatga	cggtaaatgg	cccgcctggc	attatgccca	gtacatgacc	ttatgggact	3120
	ttcctacttg	gcagtacatc	tacgtattag	tcatcgctat	taccatggtg	atgcggtttt	3180
45	ggcagtacat	caatgggcgt	ggatagcggt	ttgactcacg	gggatttcca	agtctccacc	3240
	ccattgacgt	caatgggagt	ttgttttggc	accaaaatca	acgggacttt	ccaaaatgtc	3300
50	gtaacaactc	cgccccattg	acgcaaatgg	gcggtaggca	tgtacggtgg	gaggtctata	3360
50	taagcagagc	tcgtttagtg	aaccgtcaga	tcgcctggag	acgccatcca	cgctgttttg	3420
	acctccatag	aagacaccgg	gaccgatcca	gcctccgcgg	ccccaagctt	ctcgacggat	3480
55	ccccgggaat	tcaggccatc	gatcccgccg	ccaccatgga	atggagctgg	gtctttctct	3540
	tcttcctgtc	agtaactaca	ggtgtccact	ccgacatcca	gatgacccag	tctccagcct	3600
60	ccctatctgc	atctgtggga	gaaactgtca	ctatcacatg	tcgagcaagt	gggaatattc	3660
60	acaattattt	agcatggtat	cagcagaaac	agggaaaatc	tcctcagctc	ctggtctata	3720

3780 atgcaaaaac cttagcagat ggtgtgccat caaggttcag tggcagtgga tcaggaacac 3840 aatattctct caagatcaac agcctgcagc ctgaagattt tgggagttat tactgtcaac 3900 atttttggag tactccgtgg acgttcggtg gaggcaccaa gctggaaatc aaacgggctg atgctgcacc aactgtatcc atcttcccac catccagtga gcagttaaca tctggaggtg 3960 4020 cctcagtcgt gtgcttcttg aacaacttct accccaaaga catcaatgtc aagtggaaga ttgatggcag tgaacgacaa aatggcgtcc tgaacagttg gactgatcag gacagcaaag 4080 4140 acaqcaccta cagcatgagc agcaccctca cattgaccaa ggacgagtat gaacgacata 4200 acagctatac ctgtgaggcc actcacaaga catcaacttc acccattgtc aagagcttca acaggaatga gtgttgaaag catcgatttc ccctgaattc gcccctctcc ctccccccc 4260 4320 cctaacgtta ctggccgaag ccgcttggaa taaggccggt gtgcgtttgt ctatatgtta 4380 ttttccacca tattgccgtc ttttggcaat gtgagggccc ggaaacctgg ccctgtcttc ttgacgagca ttcctagggg tctttcccct ctcgccaaag gaatgcaagg tctgttgaat 4440 4500 gtcgtgaagg aagcagttcc tctggaagct tcttgaagac aaacaacgtc tgtagcgacc 4560 ctttgcaggc agcggaaccc cccacctggc gacaggtgcc tctgcggcca aaagccacgt gtataagata cacctgcaaa ggcggcacaa ccccagtgcc acgttgtgag ttggatagtt 4620 gtggaaagag tcaaatggct ctcctcaagc gtattcaaca aggggctgaa ggatgcccag 4680 aaggtacccc attgtatggg atctgatctg gggcctcggt gcacatgctt tacatgtgtt 4740 tagtcgaggt taaaaaaacg tctaggcccc ccgaaccacg gggacgtggt tttcctttga 4800 4860 aaaacacgat gataatatgg cctcctttgt ctctctgctc ctggtaggca tcctattcca 4920 tgccacccag gccgaggttc agcttcagca gtctggggca gagcttgtga agccaggggc ctcagtcaag ttgtcctgca cagcttctgg cttcaacatt aaagacacct ttatgcactg 4980 ggtgaagcag aggcctgaac agggcctgga gtggattgga aggattgatc ctgcgaatgg 5040 gaatactgaa tatgacccga agttccaggg caaggccact ataacagcag acacatcctc 5100 5160 caacacagtc aacctgcagc tcagcagcct gacatctgag gacactgccg tctattactg tgctagtgga ggggaactgg ggtttcctta ctggggccaa gggactctgg tcactgtctc 5220 tgcagccaaa acgacacccc catctgtcta tccactggcc cctggatctg ctgcccaaac 5280 taactccatg gtgaccctgg gatgcctggt caagggctat ttccctgagc cagtgacagt 5340 5400 gacctggaac tetggateee tgteeagegg tgtgeacace tteecagetg teetgeagte tgacctctac actctgagca getcagtgac tgtcccctcc agcacctggc ccagcgagac 5460 cgtcacctgc aacgttgccc acccggccag cagcaccaag gtggacaaga aaattgtgcc 5520 5580 cagggattgt actagtggag gtggaggtag ccaccatcac catcaccatt aatctagagt

5

10

15

20

45

50

55

	taagcggc	eg tegagateta	ggcctcctag	gtcgacatcg	ataaaataaa	agattttatt	5640
	tagtctcca	ag aaaaaggggg	gaatgaaaga	ccccacctgt	aggtttggca	agctagctta	5700
5	agtaacgc	ca ttttgcaagg	catggaaaaa	tacataactg	agaatagaga	agttcagatc	5760
	aaggtcagg	ga acagatggaa	cagctgaata	tgggccaaac	aggatatctg	tggtaagcag	5820
10	ttcctgcc	cc ggctcagggc	caagaacaga	tggaacagct	gaatatgggc	caaacaggat	5880
10	atctgtggt	a agcagttcct	gccccggctc	agggccaaga	acagatggtc	cccagatgcg	5940
	gtccagcco	ct cagcagtttc	tagagaacca	tcagatgttt	ccagggtgcc	ccaaggacct	6000
15	gaaatgac	cc tgtgccttat	ttgaactaac	caatcagttc	gcttctcgct	tctgttcgcg	6060
	cgcttctg	ct ccccgagctc	aataaaagag	cccacaaccc	ctcactcggg	gcgccagtcc	6120
20	tccgattga	ac tgagtcgccc	gggtacccgt	gtatccaata	aaccctcttg	cagttgcatc	6180
20	cgacttgt	gg tctcgctgtt	ccttgggagg	gtctcctctg	agtgattgac	tacccgtcag	6240
19734 1974 1974	cgggggtc	tt tcatt					6255
252 T T T T T T T T T T T T T T T T T T	<210> 1	4					
	<211> 43	3					
20	<212> DI	NA					
	<213> A	rtificial Seq	uence				
3	<220>						
3 <b>5</b>	<223> S	ynthetic					
35 40 40 40 40 40 40 40 40 40 40 40 40 40	<400> 1	4 aa cacgatgata	atatggcctc	ctttgtctct	ctg		43
40	<210> 1	5					
	<211> 3	0					
45	<212> D	NA					
43	<213> A	rtificial Seq	uence				
	<220>						
50	<223> S	ynthetic					
	<400> 1 ttcgcgag	5 ct cgagatctag	atatcccatg				30
55	<210> 1	6					
	<211> 3	5					
60	<212> D	МA					
UU	<213> A	rtificial Seq	uence				

	<220>		
	<223>	Synthetic	
5	<400> ctacag	16 gtgt ccacgtcgac atccagctga cccag	35
	<210>	17	
10	<211>	34	
	<212>	DNA	
15	<213>	Artificial Sequence	
1.5	<220>		
	<223>	Synthetic	
20	<400> ctgcaga	17 aata gatctctaac actctcccct gttg	34
A SPANISH OF THE PROPERTY OF T	<210>	18	
2 <i>5</i>	<211>	51	
9 <u>.11.</u> 1	<212>	DNA	
36	<213>	Artificial Sequence	
	<220>		
730 ·	<223>	Synthetic	
25 30 35 40	<400> cagtgt	18 gatc tcgagaattc aggacctcac catgggatgg agctgtatca t	51
A STATE OF THE STA	<210>	19	
40	<211>	23	
	<212>	DNA	
45	<213>	Artificial Sequence	
	<220>		
	<223>	Synthetic	
50	<400> aggctg	19 tatt ggtggattcg tct	23
55	<210>	20	
33	<211>	41	
	<212>	DNA	
60	<213>	Artificial Sequence	
	<220>		

	<223>	Synthetic	
E.	<400> agcttct	20 toga gttaacagat ctaggcotoc taggtogaca t	41
5	<210>	21	
	<211>	39	
10	<212>	DNA	
	<213>	Artificial Sequence	
15	<220>		
13	<223>	Synthetic	
20	<400> cgatgt	21 cgac ctaggaggcc tagatctgtt aactcgaga	39
20	<210>	22	
d Service Service	<211>	64	
25	<212>	DNA	
2000 2000 2000 2000 2000 2000 2000 200	<213>	Artificial Sequence	
2 6=	<220>		
	<223>	Synthetic	
2 4 3 4 5 4 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	<400> cgaggc	22 tctg cacaaccact acacgcagaa gagcctctcc ctgtctcccg ggaaatgaaa	60
	gccg		64
	<210>	23	
40	<211>	72	
#****	<212>	DNA	
45	<213>	Artificial Sequence	
43	<220>		
	<223>	Synthetic	
50	<400> aattcg	23 gett teattteeeg ggagacaggg agaggetett etgegtgtag tggttgtgea	60
	gagcct	cgtg ca	72
55	<210>	24	
	<211>	41	
60	<212>	DNA	
00	<213>	Artificial Sequence	

	<220>		
	<223>	Synthetic	
5	<400> aaagca	24 tatg ttctgggcct tgttacatgg ctggattggt t	41
	<210>	25	
10	<211>	54	
	<212>	DNA	
15	<213>	Artificial Sequence	
13	<220>		
	<223>	Synthetic	
20	<400> tgaatt	25 cggc gcccccaaga acctgaaatg gaagcatcac tcagtttcat atat	54
255 255 30	<210>	26	
25	<211>	35	
ing ing	<212>	DNA	
26	<213>	Artificial Sequence	
Ju-	<220>		
81 35000 1	<223>	Synthetic	
35	<400> ctacag	26 gtgt ccacgtcgac atccagctga cccag	35
	<210>	27	
40=	<211>	34	
	<212>	DNA	
45	<213>	Artificial Sequence	
43	<220>		
	<223>	Synthetic	
50	<400> ctgcag	27 gaata gatetetaae aeteteeeet gttg	34
	<210>	28	
55	<211>	51	
	<212>	DNA	
60	<213>	Artificial Sequence	
00	<220>		

	<223>	Synthetic	
5	<400> cagtgt	28 gatc tcgagaattc aggacctcac catgggatgg agctgtatca t	51
3	<210>	29	
	<211>	22	
10	<212>	DNA	
	<213>	Artificial Sequence	
15	<220>		
13	<223>	Synthetic	
20	<400> gtgtct	29 tcgg gtctcaggct gt	22
	<210>	30	
	<211>	41	
250 250 2 2 2 3 5 5	<212>	DNA .	
	<213>	Artificial Sequence	
30	<220>		
	<223>	Synthetic	
35 11 40	<400> agcttc	30 tega gttaacagat etaggeetee taggtegaca t	41
Man I	<210>	31	
	<211>	39	
40	<212>	DNA	
	<213>	Artificial Sequence	
45	<220>		
	<223>	Synthetic	
50	<400> cgatgt	31 cgac ctaggaggcc tagatctgtt aactcgaga	39
	<210>	32	
55	<211>	64	
33	<212>	NA	
	<213>	Artificial Sequence	
60	<220>		
	<223>	Synthetic	

	<400> 32 cgaggctctg cacaaccact acacgcagaa gagcctctcc ctgtctcccg ggaaatgaaa	a 60							
5	geeg	64							
5	<210> 33								
	<211> 72								
10	<212> DNA								
	<213> Artificial Sequence								
1.5	<220>								
15	<223> Synthetic								
20	<400> 33 aattcggctt tcatttcccg ggagacaggg agaggctctt ctgcgtgtag tggttgtgc	a. 60							
	gagectegtg ca	72							
250 250 30	<210> 34								
25	<211> 9511								
	<212> DNA								
<b>5</b>	<213> Artificial Sequence								
	<220>								
	<223> Synthetic								
3 <b>5</b>	<400> 34 gaattaattc ataccagatc accgaaaact gtcctccaaa tgtgtccccc tcacactcc	c 60							
Control of the contro	aaattcgcgg gcttctgcct cttagaccac tctaccctat tccccacact caccggagc	c 120							
40≟	aaagccgcgg cccttccgtt tctttgcttt tgaaagaccc cacccgtagg tggcaagct	a 180							
	gcttaagtaa cgccactttg caaggcatgg aaaaatacat aactgagaat agaaaagtt	c 240							
45	agatcaaggt caggaacaaa gaaacagctg aataccaaac aggatatctg tggtaagcg	g 300							
73	ttcctgcccc ggctcagggc caagaacaga tgagacagct gagtgatggg ccaaacagg	a 360							
	tatctgtggt aagcagttcc tgccccggct cggggccaag aacagatggt ccccagatg	c 420							
50	ggtccagccc tcagcagttt ctagtgaatc atcagatgtt tccagggtgc cccaaggac	c 480							
	tgaaaatgac cctgtacctt atttgaacta accaatcagt tcgcttctcg cttctgttc	g 540							
55	cgcgcttccg ctctccgagc tcaataaaag agcccacaac ccctcactcg gcgcgccag	t 600							
55	cttccgatag actgcgtcgc ccgggtaccc gtattcccaa taaagcctct tgctgtttg	c 660							
	atccgaatcg tggtctcgct gttccttggg agggtctcct ctgagtgatt gactaccca	c 720							
60	gacgggggtc tttcatttgg gggctcgtcc gggatttgga gacccctgcc cagggacca	.c 780							
	cgacccacca ccgggaggta agctggccag caacttatct gtgtctgtcc gattgtcta	g 840							

	tgtctatgtt	tgatgttatg	cgcctgcgtc	tgtactagtt	agctaactag	ctctgtatct	900
	ggcggacccg	tggtggaact	gacgagttct	gaacacccgg	ccgcaaccct	gggagacgtc	960
5	ccagggactt	tgggggccgt	ttttgtggcc	cgacctgagg	aagggagtcg	atgtggaatc	1020
	cgaccccgtc	aggatatgtg	gttctggtag	gagacgagaa	cctaaaacag	ttcccgcctc	1080
10	cgtctgaatt	tttgctttcg	gtttggaacc	gaagccgcgc	gtcttgtctg	ctgcagcgct	1140
10	gcagcatcgt	tctgtgttgt	ctctgtctga	ctgtgtttct	gtatttgtct	gaaaattagg	1200
	gccagactgt	taccactccc	ttaagtttga	ccttaggtca	ctggaaagat	gtcgagcgga	1260
15	tcgctcacaa	ccagtcggta	gatgtcaaga	agagacgttg	ggttaccttc	tgctctgcag	1320
	aatggccaac	ctttaacgtc	ggatggccgc	gagacggcac	ctttaaccga	gacctcatca	1380
20	cccaggttaa	gatcaaggtc	ttttcacctg	gcccgcatgg	acacccagac	caggtcccct	1440
20	acatcgtgac	ctgggaagcc	ttggcttttg	accccctcc	ctgggtcaag	ccctttgtac	1500
2 Management	accctaagcc	teegeeteet	cttcctccat	ccgccccgtc	tctccccctt	gaacctcctc	1560
25	gttcgacccc	gcctcgatcc	tccctttatc	cagccctcac	tccttctcta	ggcgccggaa	1620
	ttccgatctg	atcaagagac	aggatgaggg	agcttgtata	tccattttcg	gatctgatca	1680
7.L	gcacgtgttg	acaattaatc	atcggcatag	tatatcggca	tagtataata	cgacaaggtg	1740
	aggaactaaa	ccatggccaa	gcctttgtct	caagaagaat	ccaccctcat	tgaaagagca	1800
31	acggctacaa	tcaacagcat	ccccatctct	gaagactaca	gcgtcgccag	cgcagctctc	1860
3 5 mm m	tctagcgacg	gccgcatctt	cactggtgtc	aatgtatatc	attttactgg	gggaccttgt	1920
	gcagaactcg	tggtgctggg	cactgctgct	gctgcggcag	ctggcaacct	gacttgtatc	1980
1 <u>1</u>	gtcgcgatcg	gaaatgagaa	caggggcatc	ttgagcccct	gcggacggtg	tcgacaggtg	2040
	cttctcgatc	tgcatcctgg	gatcaaagcg	atagtgaagg	acagtgatgg	acagccgacg	2100
	gcagttggga	ttcgtgaatt	gctgccctct	ggttatgtgt	gggagggcta	agcacttcgt	2160
45	ggccgaggag	caggactgac	acgtgctacg	agatttcgat	tccaccgccg	ccttctatga	2220
	aaggttgggc	ttcggaatcg	ttttccggga	cgccggctgg	atgatcctcc	agcgcgggga	2280
50	tctcatgctg	gagttcttcg	cccaccccaa	cttgtttatt	gcagcttata	atggttacaa	2340
50	ataaagcaat	agcatcacaa	atttcacaaa	taaagcattt	ttttcactgc	attctagttg	2400
	tggtttgtcc	aaactcatca	atgtatctta	tcatgtctgt	acgagttggt	tcagctgctg	2460
55	cctgaggctg	gacgacctcg	cggagttcta	ccggcagtgc	aaatccgtcg	gcatccagga	2520
	aaccagcagc	ggctatccgc	gcatccatgc	ccccgaactg	caggagtggg	gaggcacgat	2580
60	ggccgctttg	gtcgaggcgg	atccggccat	tagccatatt	attcattggt	tatatagcat	2640
60	aaatcaatat	tggctattgg	ccattgcata	cgttgtatcc	atatcataat	atgtacattt	2700

atattggctc	atgtccaaca	ttaccgccat	gttgacattg	attattgact	agttattaat	2760
agtaatcaat	tacggggtca	ttagttcata	gcccatatat	ggagttccgc	gttacataac	2820
ttacggtaaa	tggcccgcct	ggctgaccgc	ccaacgaccc	ccgcccattg	acgtcaataa	2880
tgacgtatgt	tcccatagta	acgccaatag	ggactttcca	ttgacgtcaa	tgggtggagt	2940
atttacggta	aactgcccac	ttggcagtac	atcaagtgta	tcatatgcca	agtacgcccc	3000
ctattgacgt	caatgacggt	aaatggcccg	cctggcatta	tgcccagtac	atgaccttat	3060
gggactttcc	tacttggcag	tacatctacg	tattagtcat	cgctattacc	atggtgatgc	3120
ggttttggca	gtacatcaat	gggcgtggat	agcggtttga	ctcacgggga	tttccaagtc	3180
tccaccccat	tgacgtcaat	gggagtttgt	tttggcacca	aaatcaacgg	gactttccaa	3240
aatgtcgtaa	caactccgcc	ccattgacgc	aaatgggcgg	taggcatgta	cggtgggagg	3300
tctatataag	cagagetegt	ttagtgaacc	gtcagatcgc	ctggagacgc	catccacgct	3360
gttttgacct	ccatagaaga	caccgggacc	gatccagcct	ccgcggcccc	aagcttctcg	3420
agttaacaga	tctaggctgg	cacgacaggt	ttcccgactg	gaaagcgggc	agtgagcgca	3480
acgcaattaa	tgtgagttag	ctcactcatt	aggcacccca	ggctttacac	tttatgcttc	3540
cggctcgtat	gttgtgtgga	attgtgagcg	gataacaatt	tcacacagga	aacagctatg	3600
accatgatta	cgccaagctt	ggctgcaggt	cgacggatcc	actagtaacg	gccgccagtg	3660
tgctggaatt	caccatgggg	caacccggga	acggcagcgc	cttcttgctg	gcacccaatg	3720
gaagccatgc	gccggaccac	gacgtcacgc	agcaaaggga	cgaggtgtgg	gtggtgggca	3780
tgggcatcgt	catgtctctc	atcgtcctgg	ccatcgtgtt	tggcaatgtg	ctggtcatca	3840
cagccattgc	caagttcgag	cgtctgcaga	cggtcaccaa	ctacttcatc	acaagcttgg	3900
cctgtgctga	tctggtcatg	gggctagcag	tggtgccctt	tggggccgcc	catattctca	3960
tgaaaatgtg	gacttttggc	aacttctggt	gcgagttctg	gacttccatt	gatgtgctgt	4020
gcgtcacggc	atcgattgag	accctgtgcg	tgatcgcagt	cgaccgctac	tttgccatta	4080
ctagtccttt	caagtaccag	agcctgctga	ccaagaataa	ggcccgggtg	atcattctga	4140
tggtgtggat	tgtgtcaggc	cttacctcct	tcttgcccat	tcagatgcac	tggtacaggg	4200
ccacccacca	ggaagccatc	aactgctatg	ccaatgagac	ctgctgtgac	ttcttcacga	4260
accaagccta	tgccattgcc	tcttccatcg	tgtccttcta	cgttcccctg	gtgatcatgg	4320
tcttcgtcta	ctccagggtc	tttcaggagg	ccaaaaggca	gctccagaag	attgacaaat	4380
ctgagggccg	cttccatgtc	cagaacctta	gccaggtgga	gcaggatggg	cggacggggc	4440
atggactccg	cagatettee	aagttctgct	tgaaggagca	caaagccctc	aagacgttag	4500
gcatcatcat	gggcactttc	accctctgct	ggctgccctt	cttcatcgtt	aacattgtgc	4560

	atgtgatcca	ggataacctc	atccgtaagg	aagtttacat	cctcctaaat	tggataggct	4620
	atgtcaattc	tggtttcaat	ccccttatct	actgccggag	cccagatttc	aggattgcct	4680
5	tccaggagct	tctgtgcctg	cgcaggtctt	ctttgaaggc	ctatggcaat	ggctactcca	4740
	gcaacggcaa	cacaggggag	cagagtggat	atcacgtgga	acaggagaaa	gaaaataaac	4800
10	tgctgtgtga	agacctccca	ggcacggaag	actttgtggg	ccatcaaggt	actgtgccta	4860
	gcgataacat	tgattcacaa	gggaggaatt	gtagtacaaa	tgactcactg	ctctcgagaa	4920
	tcgaggggcg	gcaccaccat	catcaccacg	tcgaccccgg	ggactacaag	gatgacgatg	4980
15	acaagtaagc	tttatccatc	acactggcgg	ccgctcgagc	atgcatctag	cggccgctcg	5040
	aggccggcaa	ggccggatcc	ccgggaattc	gcccctctcc	ctccccccc	cctaacgtta	5100
20	ctggccgaag	ccgcttggaa	taaggccggt	gtgcgtttgt	ctatatgtta	ttttccacca	5160
20	tattgccgtc	ttttggcaat	gtgagggccc	ggaaacctgg	ccctgtcttc	ttgacgagca	5220
2 <b>5</b>	ttcctagggg	tctttcccct	ctcgccaaag	gaatgcaagg	tctgttgaat	gtcgtgaagg	5280
25	aagcagttcc	tctggaagct	tcttgaagac	aaacaacgtc	tgtagcgacc	ctttgcaggc	5340
	agcggaaccc	cccacctggc	gacaggtgcc	tctgcggcca	aaagccacgt	gtataagata	5400
3 <b>0</b>	cacctgcaaa	ggcggcacaa	ccccagtgcc	acgttgtgag	ttggatagtt	gtggaaagag	5460
	tcaaatggct	ctcctcaagc	gtattcaaca	aggggctgaa	ggatgcccag	aaggtacccc	5520
	attgtatggg	atctgatctg	gggcctcggt	gcacatgctt	tacatgtgtt	tagtcgaggt	5580
35	taaaaaaacg	tctaggcccc	ccgaaccacg	gggacgtggt	tttcctttga	aaaacacgat	5640
	gataatatgg	cctcctttgt	ctctctgctc	ctggtaggca	tcctattcca	tgccacccag	5700
<b>4</b> 0≟	gccgagctca	cccagtctcc	agactccctg	gctgtgtctc	tgggcgagag	ggccaccatc	5760
<b>⊤</b> !>	aactgcaagt	ccagccagag	tgttttgtac	agctccaaca	ataagaacta	tttagcttgg	5820
	tatcagcaga	aaccaggaca	gcctcctaag	ctgctcattt	actgggcatc	tacccgggaa	5880
45	tccggggtcc	ctgaccgatt	cagtggcagc	gggtctggga	cagatttcac	tctcaccatc	5940
	agcagcctgc	aggctgaaga	tgtggcagtt	tattactgtc	agcaatatta	tagtactcag	6000
50	acgttcggcc	aagggaccaa	ggtggaaatc	aaacgaactg	tggctgcacc	atctgtcttc	6060
	atcttcccgc	catctgatga	gcagttgaaa	tctggaactg	cctctgttgt	gtgcctgctg	6120
	aataacttct	atcccagaga	ggccaaagta	cagtggaagg	tggataacgc	cctccaatcg	6180
55	ggtaactccc	aggagagtgt	cacagagcag	gacagcaagg	acagcaccta	cagcctcagc	6240
	agcaccctga	cgctgagcaa	agcagactac	gagaaacaca	aactctacgc	ctgcgaagtc	6300
60	acccatcagg	gcctgagatc	gcccgtcaca	aagagcttca	acaaggggag	agtgttagtt	6360
υυ	ctagataatt	aattaggagg	agatctcgag	ctcgcgaaag	cttggcactg	gccgtcgttt	6420

	tagaacgtcg	tgactgggaa	aaccctggcg	ttacccaact	taatcgcctt	gcagcacatc	6480
							6540
_		cagcctccta					
5	_	ggaatgaaag					6600
	attttgcaag	gcatggaaaa	atacataact	gagaatagag	aagttcagat	caaggtcagg	6660
10	aacagatgga	acagctgaat	atgggccaaa	caggatatct	gtggtaagca	gttcctgccc	6720
	cggctcaggg	ccaagaacag	atggaacagc	tgaatatggg	ccaaacagga	tatctgtggt	6780
	aagcagttcc	tgccccggct	cagggccaag	aacagatggt	ccccagatgc	ggtccagccc	6840
15	tcagcagttt	ctagagaacc	atcagatgtt	tccagggtgc	cccaaggacc	tgaaatgacc	6900
	ctgtgcctta	tttgaactaa	ccaatcagtt	cgcttctcgc	ttctgttcgc	gcgcttctgc	6960
20	tccccgagct	caataaaaga	gcccacaacc	cctcactcgg	ggcgccagtc	ctccgattga	7020
	ctgagtcgcc	cgggtacccg	tgtatccaat	aaaccctctt	gcagttgcat	ccgacttgtg	7080
	gtctcgctgt	tccttgggag	ggtctcctct	gagtgattga	ctacccgtca	gcgggggtct	7140
25	ttcatttggg	ggctcgtccg	ggatcgggag	acccctgccc	agggaccacc	gacccaccac	7200
2 <b>5</b>	cgggaggtaa	gctggctgcc	tcgcgcgttt	cggtgatgac	ggtgaaaacc	tctgacacat	7260
<b>3©</b>	gcagctcccg	gagacggtca	cagcttgtct	gtaagcggat	gccgggagca	gacaagcccg	7320
	tcagggcgcg	tcagcgggtg	ttggcgggtg	tcggggcgca	gccatgaccc	agtcacgtag	7380
	cgatagcgga	gtgtatactg	gcttaactat	gcggcatcag	agcagattgt	actgagagtg	7440
35	caccatatgc	ggtgtgaaat	accgcacaga	tgcgtaagga	gaaaataccg	catcaggcgc	7500
	tcttccgctt	cctcgctcac	tgactcgctg	cgctcggtcg	ttcggctgcg	gcgagcggta	7560
	tcagctcact	caaaggcggt	aatacggtta	tccacagaat	caggggataa	cgcaggaaag	7620
40	aacatgtgag	caaaaggcca	gcaaaaggcc	aggaaccgta	aaaaggccgc	gttgctggcg	7680
	tttttccata	ggeteegeee	ccctgacgag	catcacaaaa	atcgacgctc	aagtcagagg	7740
45	tggcgaaacc	cgacaggact	ataaagatac	caggcgtttc	cccctggaag	ctccctcgtg	7800
	cgctctcctg	ttccgaccct	gccgcttacc	ggatacctgt	ccgcctttct	cccttcggga	7860
50	agcgtggcgc	tttctcatag	ctcacgctgt	aggtatctca	gttcggtgta	ggtcgttcgc	7920
50	tccaagctgg	gctgtgtgca	cgaacccccc	gttcagcccg	accgctgcgc	cttatccggt	7980
	aactatcgtc	ttgagtccaa	cccggtaaga	cacgacttat	cgccactggc	agcagccact	8040
55	ggtaacagga	ttagcagagc	gaggtatgta	ggcggtgcta	cagagttctt	gaagtggtgg	8100
	cctaactacg	gctacactag	aaggacagta	tttggtatct	gcgctctgct	gaagccagtt	8160
60	accttcggaa	aaagagttgg	tagctcttga	tccggcaaac	aaaccaccgc	tggtagcggt	8220
60	ggttttttg	tttgcaagca	gcagattacg	cgcagaaaaa	aaggatctca	agaagatcct	8280

	ttgatctttt	ctacggggtc	tgacgctcag	tggaacgaaa	actcacgtta	agggattttg	8340
5	gtcatgagat	tatcaaaaag	gatcttcacc	tagatccttt	taaattaaaa	atgaagtttt	8400
	aaatcaatct	aaagtatata	tgagtaaact	tggtctgaca	gttaccaatg	cttaatcagt	8460
	gaggcaccta	tctcagcgat	ctgtctattt	cgttcatcca	tagttgcctg	actccccgtc	8520
10	gtgtagataa	ctacgatacg	ggagggctta	ccatctggcc	ccagtgctgc	aatgataccg	8580
10	cgagacccac	gctcaccggc	tccagattta	tcagcaataa	accagccagc	cggaagggcc	8640
	gagcgcagaa	gtggtcctgc	aactttatcc	gcctccatcc	agtctattaa	ttgttgccgg	8700
15	gaagctagag	taagtagttc	gccagttaat	agtttgcgca	acgttgttgc	cattgctgca	8760
	ggcatcgtgg	tgtcacgctc	gtcgtttggt	atggcttcat	tcagctccgg	ttcccaacga	8820
20	tcaaggcgag	ttacatgatc	ccccatgttg	tgcaaaaaag	cggttagctc	cttcggtcct	8880
20	ccgatcgttg	tcagaagtaa	gttggccgca	gtgttatcac	tcatggttat	ggcagcactg	8940
	cataattctc	ttactgtcat	gccatccgta	agatgctttt	ctgtgactgg	tgagtactca	9000
25.7.7.1.3.3.3.3.3.3.3.3.3.3.3.3.3.3.3.3.3	accaagtcat	tctgagaata	gtgtatgcgg	cgaccgagtt	gctcttgccc	ggcgtcaaca	9060
	cgggataata	ccgcgccaca	tagcagaact	ttaaaagtgc	tcatcattgg	aaaacgttct	9120
	tcggggcgaa	aactctcaag	gatcttaccg	ctgttgagat	ccagttcgat	gtaacccact	9180
	cgtgcaccca	actgatcttc	agcatctttt	actttcacca	gcgtttctgg	gtgagcaaaa	9240
general Commencer	acaggaaggc	aaaatgccgc	aaaaaaggga	ataagggcga	cacggaaatg	ttgaatactc	9300
35	atactcttcc	tttttcaata	ttattgaagc	atttatcagg	gttattgtct	catgagcgga	9360
E COL	tacatatttg	aatgtattta	gaaaaataaa	caaatagggg	ttccgcgcac	atttccccga	9420
3 <b>5 6 6 6 7 6 7 6 7 7 8 9 9 9 9 9 9 9 9 9 9</b>	aaagtgccac	ctgacgtcta	agaaaccatt	attatcatga	cattaaccta	taaaaatagg	9480
40	cgtatcacga	ggccctttcg	tcttcaagaa	t			9511
	<210> 35						
45	<211> 30						
	<212> DNA						
50	<213> Art:	ificial Seq	uence				
	<220>						
	<223> Synt	thetic					
55	<400> 35 gatccactag	taacggccgc	cagaattcgc				30
60	<210> 36						
	<211> 43						
	<212> DNA						

	22137 Attiticial bequence	
	<220>	
5	<223> Synthetic	
	<400> 36 cagagagaca tattatcatc gtgtttttca aag	43
10		